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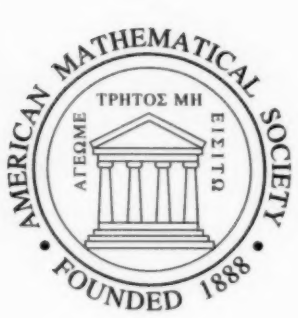
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— *see also* **Proofs and physics, their interrelationship**
(Jahnke, Hans Niels) *see* **History of mathematics and education: ideas and experiences**, **97f:01002**
(Kaput, Jim) *see* **Research in collegiate mathematics education**, **97d:00013**
(Knoche, Norbert) *see* **History of mathematics and education: ideas and experiences**, **97f:01002**
Laugwitz, Detlef Leibniz' principle and omega calculus. **97j:00007**
Lawvere, F. William Unity and identity of opposites in calculus and physics. (English summary) **97g:18003**
(Lobachevskiĭ, Nikolaĭ Ivanovich) *see* **Perminov, V. Ya.**, **97i:01020**
(Maitland, Francis) *see* **Poincaré, Henri**, **97m:01110**
(Menger, Karl) *see* **Waismann, Friedrich**, **97h:00005**
Nelson, Edward Mathematical mythologies. **97j:03106**
Otte, Michael Gegenstand und Methode in der Geschichte der Mathematik. [Subject and method in the history of mathematics] **97i:01004**
— *see also* **History of mathematics and education: ideas and experiences**, **97f:01002**
Perminov, V. Ya. The philosophical and methodological thought of N. I. Lobachevsky. (English summary) **97i:01020**
Poincaré, Henri ★ Science and method. **97m:01110**
— *see also* **Hadamard, Jacques**, **97a:00009**
Quinn, Frank *see* **Jaffe, Arthur** *and* **Proofs and physics, their interrelationship**
Rota, Gian-Carlo Zehn ungelehrte Lektionen. (German summary) [Ten lessons I wish I had been taught]
— Ten lessons I wish I had been taught.
(Russell, Bertrand) *see* **Poincaré, Henri**, **97m:01110**
(Saul, Mark) *see* **Fomin, D. V.; et al.**, **97m:00003**
(Schoenfeld, Alan H.) *see* **Research in collegiate mathematics education**, **97d:00013**
Sjöberg, Boris Håkan Some aspects of the history of mathematical notations. (Swedish. English summary) **97b:01002**
Stillwell, John Number theory as a core mathematical discipline. **97d:00003**
Tappenden, Jamie Extending knowledge and "fruitful concepts": Fregean themes in the foundations of mathematics. **97a:00016**
Thurston, William P. On proof and progress in mathematics. (Czech)
Uffink, Jos Can the maximum entropy principle be explained as a consistency requirement? (English summary) **97d:01020**
Waismann, Friedrich ★ Einführung in das mathematische Denken. (German. German summary) [Introduction to mathematical thinking] **97h:00005**

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Biography:
Waismann, Friedrich *see* **Waismann, Friedrich**, **97h:00005**
Conference:
History of Mathematics and Education: Ideas and Experiences ★ History of mathematics and education: ideas and experiences. **97f:01002**
Essen ★ History of mathematics and education: ideas and experiences. **97f:01002**
History of mathematics and education: ideas and experiences ★ History of mathematics and education: ideas and experiences. **97f:01002**
Proofs and physics, their interrelationship Proofs and physics, their interrelationship. (Czech)
Research in collegiate mathematics education ★ Research in collegiate mathematics education. II. **97d:00013**
Towards gender equity in mathematics education ★ Towards gender equity in mathematics education. **97c:01055**

00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86.}

Aboufadel, Edward A mathematician catches a baseball. **97k:00010**
(Bachem, Achim) *see* **Mathematics in practice**, **97c:00028**
Bak, Per ★ How nature works.
Bán, István ★ Mathematical exploration of the environment. (English summary) **97a:00020**
Behrends, Ehrhard Mathematik und Musik zum ICM 98. (German summary) [Mathematics and music at the ICM of 1998]
Beste, Andreas (*with* Brokate, Martin; Dreßler, Klaus) Kann man berechnen, wie lange ein Auto hält? [Can one calculate how long an automobile will last?] (*see* **97c:00028**)
Brokate, Martin *see* **Beste, Andreas; et al.**, (**97c:00028**)
Chou, Ji Fan *see* **Guan, Yu Ping; et al.**, **97m:00013**
Dabby, Diana S. Musical variations from a chaotic mapping. (English summary) **97c:00025**
Dreßler, Klaus *see* **Beste, Andreas; et al.**, (**97c:00028**)
Escultura, E. E. Probabilistic mathematics and applications to dynamic systems including Fermat's last theorem. (English summary) (*see* **97g:00022**)
Fasano, Antonio The experience of collaboration with industry on long-term programs.
Feng, Shi Zuo *see* **Guan, Yu Ping; et al.**, **97m:00013**
Garmendia Rodríguez, M. J. (*with* Navarro González, J. A.) Mathematical theory of musical scales. **97m:00012**
Glaister, P. Stable beer: mathematically speaking.
Guan, Yu Ping (*with* Feng, Shi Zuo; Chou, Ji Fan; Sun, De Tian) Some basic features of qualitative mathematics. (Chinese. English and Chinese summaries) **97m:00013**
Haken, Hermann Synergetics: from pattern formation to pattern recognition. Some basic mathematical results. (English summary) **97a:00021**
Hall, G. G. *see* **Hamson, M. J.**
Hamson, M. J. (*with* Hall, G. G.) Stable beer.
(Handelman, George) *see* **Applied mathematics**, **97m:00015**
Hubbard, Barbara Burke ★ The world according to wavelets. (English summary) **97h:00011**
(Jünger, Michael) *see* **Mathematics in practice**, **97c:00028**
Kythe, Prem K. ★ Fundamental solutions for differential operators and applications. (English summary) **97f:00009**
Landa, P. S. ★ Nonlinear oscillations and waves in dynamical systems. (English summary) **97h:00008**
Lässig, Peter H. Kybernetik—Weg und Werkzeug der Wissenschaften: Begegnung eines Ingenieurs und Physiologen mit den Ideen Norbert Wieners. [Cybernetics—way and tool of the sciences: the meeting of an engineer and physiologist with the ideas of Norbert Wiener] (*see* **97h:00017**)
Leipelt, Andreas Neue Einsichten in Mathematik und Naturwissenschaften durch Computergrafik? [New insights into mathematics and the sciences through computer graphics?]
Logan, J. David ★ Applied mathematics. (English summary) **97j:00014**
Loskutov, A. Yu. *see* **Mikhailov, A. S.**, **97c:00026**
Mainzer, Klaus ★ Thinking in complexity. **97m:00014**
Marchuk, G. I. Applications of adjoint equations to problems of global change and environment protection. (English summary) **97f:00010**
Mikhailov, A. S. (*with* Loskutov, A. Yu.) ★ Foundations of synergetics. II. (English summary) **97c:00026**
Navarro González, J. A. *see* **Garmendia Rodríguez, M. J.**, **97m:00012**
(Oyibo, G.) *see* **Applied mathematics**, **97m:00015**
Qu, Shao Yan *see* **Zhang, Yu Feng**
Reinelt, Gerhard Kombinatorische Optimierung und VLSI-Entwurf. [Combinatorial optimization and VLSI design] (*see* **97c:00028**)
Roederer, Juan G. ★ The physics and psychophysics of music. (English summary) **97c:00027**
Santosa, Fadil A level-set approach for inverse problems involving obstacles. (English summary) **97f:00011**

Schempp, Walter Phase coherent wavelets, Fourier transform magnetic resonance imaging, and synchronized time-domain neural networks. (English summary) **97g:00014**
Schneider, Martin Weltkonstitution durch logische Analyse. Kritische Überlegungen zu Leibniz und Carnap. (English summary) [World constitution by logical analysis. Critical considerations on Leibniz and Carnap]
(Schrader, Rainer) *see* **Mathematics in practice**, **97c:00028**
Sun, De Tian *see* **Guan, Yu Ping; et al.**, **97m:00013**
(Wallner, Ákos) *see* **Bán, István**, **97a:00020**
(Wheeler, Mary Fanett) *see* **Environmental studies**, **97f:00012**
Zhang, Yu Feng (*with* Qu, Shao Yan) The functions and roles of mathematical patterns. (Chinese. English and Chinese summaries)

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Applied mathematics ★ Applied mathematics. **97m:00015**
Cologne ★ Mathematik in der Praxis. (German) [Mathematics in practice] **97c:00028**
Conference:
Mathematics in Industry and Economics ★ Mathematik in der Praxis. (German) [Mathematics in practice] **97c:00028**
Environmental studies ★ Environmental studies. **97f:00012**
Festschrift:
Handelman, George H. ★ Applied mathematics. **97m:00015**
Mathematics in practice ★ Mathematik in der Praxis. (German) [Mathematics in practice] **97c:00028**
Mathematik in der Praxis ★ Mathematik in der Praxis. (German) [Mathematics in practice] **97c:00028**
Minneapolis, MN ★ Environmental studies. **97f:00012**

Items with secondary classifications in 00A69

Agoshkov, V. I. *see* **Marchuk, G. I.; et al.**, **97d:47082**
(Alber, Mark S.) *see* **Current and future directions in applied mathematics**, **97j:00017**
Arnstein, Bennett *see* **Gurkewitz, Rona**, **97a:52017**
Bartel, Hans-Georg ★ Mathematische Methoden in der Chemie. (German. German summary) [Mathematical methods in chemistry] **97i:92009**
(Blumberg, Baruch) *see* **Coveney, Peter**, **97f:58001**
Bourguignon, Jean-Pierre (*with* Tisseyre, François; Weingarten, Claire; Weingarten, Romain) The new shepherd's lamp. (English summary) **97f:01035**
Brokate, Martin (*with* Sprekels, Jürgen) ★ Hysteresis and phase transitions. (English summary) **97g:35127**
Campos Romero, Diógenes Logistic model: a paradigm in the theory of chaos. (Spanish. English and Spanish summaries) **97g:58105**
Chan, Wai Leung *see* **So, A. T. P.; et al.**, (**97f:00026**)
(Corfield, David) *see* **Gouyet, Jean-François**, **97d:58002**
Coveney, Peter (*with* Highfield, Roger) ★ Frontiers of complexity. (English summary) **97f:58001**
Crowe, D. W. (*with* Nagy, D.) Cakaudrove patterns. **97a:52038**
Filev, Dimiter *see* **Yager, Ronald R.**, **97a:04005**
González-Velasco, Enrique A. ★ Fourier analysis and boundary value problems. (English summary) **97f:00002**
Götze, Heinz Friedrich II and the love of geometry. **97a:01018**
Gouyet, Jean-François ★ Physics and fractal structures. **97d:58002**
Grattan-Guinness, Ivor Mozart 18, Beethoven 32: hidden shadows of integers in classical music. (English summary) **97a:01075**
Gurkewitz, Rona (*with* Arnstein, Bennett) ★ 3-D geometric origami. (English summary) **97a:52017**
Hazewinkel, Michiel Classification in mathematics, discrete metric spaces, and approximation by trees. (English summary) **97f:68147**
Hedrich, Reiner Die nicht ganz so unglaubliche Effizienz der Mathematik in den Naturwissenschaften. [The not quite so unbelievable efficiency of mathematics in the sciences] **97j:00006**
Highfield, Roger *see* **Coveney, Peter**, **97f:58001**
Hilton, Peter (*with* Holton, D. A.; Pedersen, Jean) ★ Mathematical reflections. (English summary) **97j:00001**
Holschneider, Matthias ★ Wavelets. **97b:42051**
Holton, D. A. *see* **Hilton, Peter; et al.**, **97j:00001**
Howarth, Richard J. Sources for a history of the ternary diagram. **97k:01001**
(Hu, Bei) *see* **Current and future directions in applied mathematics**, **97j:00017**
Isaksen, Daniel C. How to kick a field goal.
(Keil, F.) *see* **Scientific computing in chemical engineering**, **97e:65008**
Kirby, Kevin G. Of memories, neurons, and rank-one corrections. **97j:92017**
Kirstein, Bernd Einige Bemerkungen über Vorhersagetheorie und harmonische Analyse 30 Jahre nach Norbert Wiener. [Some remarks on prediction theory and harmonic analysis 30 years after Norbert Wiener] (*see* **97b:00017**)
Krieger, Martin H. ★ Constitutions of matter. (English summary) **97g:00015**
(Mackens, W.) *see* **Scientific computing in chemical engineering**, **97e:65008**
(Mandelbrot, Benoit B.) *see* **Gouyet, Jean-François**, **97d:58002**
Marchuk, G. I. (*with* Agoshkov, V. I.; Shutyaev, V. P.) ★ Сопряженные уравнения и методы возмущений в нелинейных задачах математической физики. (Russian. Russian summary) [Adjoint equations and perturbation methods in nonlinear problems of mathematical physics] **97d:47082**
Mostow, G. D. A brief survey of symmetry in mathematics. (English summary) (*see* **97j:00016**)
Nagy, D. *see* **Crowe, D. W.**, **97a:52038**
(Novak, Miroslav M.) *see* **Fractal reviews in the natural and applied sciences**, **97a:58173**
Pedersen, Jean *see* **Hilton, Peter; et al.**, **97j:00001**
Petersen, Karl Ergodic theorems and the basis of science. (English summary) **97k:28037**
(Pospelov, D. A.) *see* **Zenkin, A. A.**, **97m:11164**
Rosen, Joe ★ Symmetry in science. (English summary) **97f:20001**
(Rosenthal, Joachim) *see* **Current and future directions in applied mathematics**, **97j:00017**
Rueger, Alexander (*with* Sharp, W. David) Simple theories of a messy world: truth and explanatory power in nonlinear dynamics. (English summary) **97b:00009**
Ruelle, David ★ Turbulence, strange attractors, and chaos. (English summary) **97f:58091**
Schuster, Heinz Georg ★ Deterministic chaos. (English summary) **97c:58103**
Sharp, W. David *see* **Rueger, Alexander**, **97b:00009**
Shutyaev, V. P. *see* **Marchuk, G. I.; et al.**, **97d:47082**
So, A. T. P. (*with* Chan, Wai Leung; Yuen, R. K. K.) Solving fuzzy simultaneous equations and its application. (*see* **97f:00026**)
Sprekels, Jürgen *see* **Brokate, Martin**, **97g:35127**
Tisseyre, François *see* **Bourguignon, Jean-Pierre; et al.**, **97f:01035**
Voit, Eberhard O. How many variables? Some comments on the dimensionality of nonlinear systems. (English summary) (*see* **97a:00029**)
(Voss, Heinrich) *see* **Scientific computing in chemical engineering**, **97e:65008**
Weingarten, Claire *see* **Bourguignon, Jean-Pierre; et al.**, **97f:01035**
Weingarten, Romain *see* **Bourguignon, Jean-Pierre; et al.**, **97f:01035**
(Werther, J.) *see* **Scientific computing in chemical engineering**, **97e:65008**
Xu, Qin Generalized adjoint for physical processes with parameterized discontinuities. I. Basic issues and heuristic examples. (English summary) **97b:86007**
Yager, Ronald R. (*with* Filev, Dimiter) Relational partitioning of fuzzy rules. (English summary) **97a:04005**
Yuen, R. K. K. *see* **So, A. T. P.; et al.**, (**97f:00026**)
Zenkin, A. A. ★ Когнитивная компьютерная графика. (Russian. Russian summary) [Cognitive computer graphics] **97m:11164**
Zimmermann, Rainer E. Twistors and self-reference: on the generic non-linearity of nature. (English summary) **97k:81062**
Zoglauer, Thomas Optimalität der Natur? [Optimality of nature?]

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Current and future directions in applied mathematics ★ Current and future directions in applied mathematics. **97j:00017**
Fractal reviews in the natural and applied sciences ★ Fractal reviews in the natural and applied sciences. **97a:58173**
Harburg ★ Scientific computing in chemical engineering. **97e:65008**
IFIP Conference:
Fractals in the Natural and Applied Sciences ★ Fractal reviews in the natural and applied sciences. **97a:58173**
Marseille ★ Fractal reviews in the natural and applied sciences. **97a:58173**
Music and mathematics ★ Musique et mathématiques. (French) [Music and mathematics] **97m:01003**
Musique et mathématiques ★ Musique et mathématiques. (French) [Music and mathematics] **97m:01003**
Notre Dame, IN ★ Current and future directions in applied mathematics. **97j:00017**
Scientific computing in chemical engineering ★ Scientific computing in chemical engineering. **97e:65008**
Symposium:
Current and Future Directions in Applied Mathematics ★ Current and future directions in applied mathematics. **97j:00017**
Workshop:
Scientific Computing in Chemical Engineering ★ Scientific computing in chemical engineering. **97e:65008**

00A71 Theory of mathematical modeling

Abbott, Stephen D. (*with* Richey, Matt) Take a walk on the Boardwalk.
Bajzer, Željko (*with* Marušić, Miljenko; Vuk-Pavlović, Stanimir) Mathematical modeling of cellular interaction dynamics in multicellular tumor spheroids. (English summary) (*see* **97a:00029**)
Deineka, V. S. (*with* Sergienko, I. V.; Skopets′kiĭ, V. V.) ★ Математические модели и методы расчета задач с разрывными решениями. (Russian. Russian and Ukrainian summaries) [Mathematical models and methods for computing problems with discontinuous solutions] **97b:00012**
Eck, Matthias (*with* Hoschek, Josef; Weber, Ulrich) Arthrose—wie Mathematik helfen kann. [Arthrosis—how mathematics can help] (*see* **97c:00028**)
Evers, Olaf Modellierung der Dichtefunktionale von adsorbierten Polymerschichten. [Modeling of the density functionals of adsorbed polymer layers] (*see* **97c:00028**)
Fowkes, Neville D. (*with* Mahony, John J.) ★ Einführung in die Mathematische Modellierung. (German) [An introduction to mathematical modelling] **97f:00013**
van Groesen, E. Mathematical modelling in applied analysis. (English summary) **97j:00015**
Hoschek, Josef *see* **Eck, Matthias; et al.**, (**97c:00028**)
Kallrath, Josef Diskrete Optimierung in der chemischen Industrie. [Discrete optimization in the chemical industry] (*see* **97c:00028**)
Karras, Ulrich Algebraische Geometrie in der Robotik. [Algebraic geometry in robotics] (*see* **97c:00028**)
Komkov, Vadim Some unsolved problems in optimal design theory: interaction of mathematical modelling of large structural, mechanical or chemical systems with their design. (English summary) (*see* **97a:00029**)
Korol′kov, Yu. D. ★ Математические модели и алгоритмы на ветвящихся структурах. (Russian. Russian summary) [Mathematical models and algorithms on branching structures] **97m:00016**
Krieger, Martin H. ★ Constitutions of matter. (English summary) **97g:00015**
Mahony, John J. *see* **Fowkes, Neville D.**, **97f:00013**
Marušić, Miljenko *see* **Bajzer, Željko; et al.**, (**97a:00029**)
(Mitreuter, Ulrich) *see* **Fowkes, Neville D.**, **97f:00013**
Richey, Matt *see* **Abbott, Stephen D.**
Sabatier, Pierre C. Nonuniqueness in inverse problems. (English summary) **97d:00012**
Schröer, Klaus Kinematische Modellierung für die Roboterkalibration. [Kinematic modelling for robot calibration] (*see* **97c:00028**)
Schuppert, Andreas Mathematik in der Modellierung am Beispiel der mechanischen Eigenschaften von Polymeren Hochleistungsfasern. [Mathematics in modelling, on the example of the mechanical properties of polymer high quality fibers] (*see* **97c:00028**)
Sergienko, I. V. *see* **Deineka, V. S.; et al.**, **97b:00012**
Skopets′kiĭ, V. V. *see* **Deineka, V. S.; et al.**, **97b:00012**

Triebel, Hans Mathematische Modellbildung. [Forming of mathematical models] (*see* **97c:00031**)
Vuk-Pavlović, Stanimir *see* **Bajzer, Željko; et al.**, (**97a:00029**)
Weber, Ulrich *see* **Eck, Matthias; et al.**, (**97c:00028**)

Items with secondary classifications in 00A71

Aboufadel, Edward A mathematician catches a baseball. **97k:00010**
Ewing, Richard E. Mathematical modeling and simulation for applications of fluid flow in porous media. (English summary) **97m:76123**
van den Herik, H. Jaap How to model thoughts and actions? **97b:90139**
Maimon, Oded Z. *see* **Shmilovici, Armin**, **97b:03071**
(Pospelov, D. A.) *see* **Zenkin, A. A.**, **97m:11164**
Shmilovici, Armin (*with* Maimon, Oded Z.) The fuzzy rule-base solution of differential equations. (English summary) **97b:03071**
Zenkin, A. A. ★ Когнитивная компьютерная графика. (Russian. Russian summary) [Cognitive computer graphics] **97m:11164**

00A72 General methods of simulation

Abdel-Hamid, Atef Abdel-Aziz (*with* Ascheuer, Norbert; Grötschel, Martin; Schorer, Herbert) Simulation und Optimierung einer PC-Fertigung unter Echtzeitbedingungen. [Simulation and optimization of PC production under real-time conditions] (*see* **97c:00028**)
Ascheuer, Norbert *see* **Abdel-Hamid, Atef Abdel-Aziz; et al.**, (**97c:00028**)
Grötschel, Martin *see* **Abdel-Hamid, Atef Abdel-Aziz; et al.**, (**97c:00028**)
Schorer, Herbert *see* **Abdel-Hamid, Atef Abdel-Aziz; et al.**, (**97c:00028**)

00A73 Dimensional analysis

Aczél, János Variationen über das Thema Dimensionsanalyse. [Variations on the subject of dimensional analysis]
Mendoza, César Yet another proof of the Π-theorem. **97a:00022**
Voit, Eberhard O. How many variables? Some comments on the dimensionality of nonlinear systems. (English summary) (*see* **97a:00029**)

Items with secondary classifications in 00A73

Logan, J. David ★ Applied mathematics. (English summary) **97j:00014**

00A79 Physics (use more specific entries from Sections 70 through 86 when possible)

Balibar, Fr. Le rôle de l'éther dans la question du continu et du discontinu en physique. [The role of the ether in the question of the continuous and the discontinuous in physics] (*see* **97e:00006**)
(Brown, Laurie M.) *see* **Twentieth century physics**, **97a:00023**
Kreinovich, Vladik Ya. (*with* Longpré, Luc) Unreasonable effectiveness of symmetry in physics. (English summary)
Le Bellac, Michel Invariance d'échelle, universalité et limite statistique continue en physique. [Scale invariance, universality and continuous statistical limit in physics] **97f:00014**
Liu, Chuang Gauge invariance, Cauchy problem, indeterminism, and symmetry breaking. (English summary) (*see* **97d:00025**)
Longpré, Luc *see* **Kreinovich, Vladik Ya.**
Maudlin, Tim On the unification of physics. **97c:00029**
(Pais, Abraham) *see* **Twentieth century physics**, **97a:00023**
(Pippard, Brian) *see* **Twentieth century physics**, **97a:00023**

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Twentieth century physics ★ Twentieth century physics. Vol. I, II, III. **97a:00023**

Items with secondary classifications in 00A79

Aldrovandi, R. (*with* Pereira, J. G.) ★ An introduction to geometrical physics. **97g:58001**
Antonopoulos, Constantin Bohr on nonlocality: the facts and the fiction. (English summary) **97j:01028**
Arsenijević, Miloš Eine aristotelische Logik der Intervalle, die Cantorsche Logik der Punkte und die physikalischen und kinematischen Prädikate. [An Aristotelian logic of intervals, Cantor's logic of points and the physical and kinematic predicates.] **97j:03024**
Atiyah, Michael Francis Geometry and physics: where are we going? **97j:58001**
— *see also* **Hawking, Stephen W.**, **97a:83003** *and* **Proofs and physics, their interrelationship**
Atten, Michel Poincaré et la tradition de la physique mathématique française. (French summary) [Poincaré and the French mathematical physics tradition] **97j:01017**
Bailhache, Patrice What are the bases of classical mechanics? A reply from the history of science. (Polish. English summary) **97a:00007**
Bailly, Francis Théories physiques et cardinalités mathématiques. [Physical theories and mathematical cardinalities] (*see* **97e:00006**)
Balaguer, Mark Towards a nominalization of quantum mechanics. (English summary) **97d:00005**
Bamford, Greg Popper and his commentators on the discovery of Neptune: a close shave for the law of gravitation? **97c:00015**
Barreau, Hervé Poincaré et l'espace-temps ou un conventionalisme insuffisant. (French summary) [Poincaré and space-time, or an insufficient conventionalism] **97f:01021**
Bartelborth, Thomas Kann es rational sein, eine inkonsistente Theorie zu akzeptieren? (Eine Untersuchung zum frühen Bohrschen Atommodell). [What's rational about accepting an inconsistent theory? (An investigation of Bohr's early model of the atom)]
Bartels, Andreas Von Einstein zu Aristoteles. Raumzeit-Philosophie und Substanz-Metaphysik. (German summary) [From Einstein to Aristotle. Spacetime philosophy and substance metaphysics] **97g:00005**
(Beck, Anna) *see* **Einstein, Albert**, **97c:01047**
(Bell, J. S.) *see* **Laudisa, Federico**, **97a:81012**
Beller, Mara The rhetoric of antirealism and the Copenhagen spirit. (English summary) **97h:81006**
Belot, Gordon Why general relativity does need an interpretation. (English summary) (*see* **97d:00025**)
Bohm, David Joseph On the role of hidden variables in the fundamental structure of physics. (English summary) **97e:81004**
(Bohr, Niels) *see* **Antonopoulos, Constantin**, **97j:01028**
Boi, Luciano Die Beziehungen zwischen Raum, Kontinuum und Materie im Denken Riemanns; die Äthervorstellung und die Einheit der Physik. Das Entstehen einer neuen Naturphilosophie. [The relationships between space, continuum and matter in Riemann's thinking; the concept of ether and the unity of physics. The evolution of a new philosophy of nature] **97g:01015**
Bonaly, A. *see* **Bounias, M.**
(Born, Max) *see* **Im, Gyeong Soon**, **97a:01038**
Bounias, M. (*with* Bonaly, A.) Timeless space is provided by the empty set. (English summary)
Braunss, Günter The Grassmann product in physics. (*see* **97f:01001**)
Brenner, Anastasios La nature des hypothèses physiques selon Poincaré, à la lumière de la controverse avec Duhem. (French summary) [The nature of physical hypotheses according to Poincaré, in light of the argument with Duhem] **97j:00004**
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Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **97d:00026**
— ★ Differential equations, asymptotic analysis, and mathematical physics. **97m:00024**
Potential Theory and Degenerate Partial Differential Operators ★ Potential theory and degenerate partial differential operators. **97f:00021**
Problems of Pure and Applied Mathematics ★ Problems of pure and applied mathematics. **97f:00022**
Smart Structures and Materials: Mathematics and Control in Smart Structures ★ Smart structures and materials 1996: mathematics and control in smart structures. **97f:00027**
Symmetry in Nonlinear Mathematical Physics ★ Symmetry in nonlinear mathematical physics. Vol. 3. **97a:00036**
Theoretical Computer Science ★ Journées Montoises. [Mons Conference] **97i:00012**
Yamada ★ Group theoretical methods in physics. **97d:00023**
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Applied Mathematics ★ III Congreso de Matemática Aplicada/XIII C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones). (Spanish) [III Congress on Applied Mathematics/XIII Congress on Differential Equations and Applications] **97g:00019**
Differential Equations and Applications ★ III Congreso de Matemática Aplicada/XIII C.E.D.Y.A. (Congreso de Ecuaciones Diferenciales y Aplicaciones). (Spanish) [III Congress on Applied Mathematics/XIII Congress on Differential Equations and Applications] **97g:00019**
Fuzzy Logic and its Applications to Engineering, Information Sciences, and Intelligent Systems ★ Fuzzy logic and its applications to engineering, information sciences, and intelligent systems. **97g:00021**
IMACS ★ Signal processing and neural networks. **97b:00025**
Mathematicians ★ Proceedings of the International Congress of Mathematicians. Vol. 1, 2. **97c:00049**
Mathematics ★ Actas del Tercer Congreso de Matemática "Dr. Antonio A. R. Monteiro". (Spanish) [Proceedings of the Third "Dr. Antonio A. R. Monteiro" Congress on Mathematics] **97b:00023**
Nonlinear Analysts ★ World Congress of Nonlinear Analysts '92. Vol. I–IV. **97a:00029**
Constanţa ★ Representation theory of groups, algebras, and orders. **97d:00029**
— ★ Representation theory of groups, algebras, and orders. **97g:00023**
Contemporary Mathematics ★ Extremal Riemann surfaces. **97g:00020**
— ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Convergence in ergodic theory and probability ★ Convergence in ergodic theory and probability. **97d:00018**
Cosenza ★ Proceedings of the Workshop "Functional Analysis: Methods and Applications". **97c:00050**
Current and future directions in applied mathematics ★ Current and future directions in applied mathematics. **97j:00017**
Deformation of group schemes and applications to number theory ★ Gun sukiimu no henkei to seisūron e no oyō. (Japanese) [Deformation of group schemes and applications to number theory] **97d:00019**
Differential equations and applications ★ Differential equations and applications. **97c:00039**
Differential equations, asymptotic analysis, and mathematical physics ★ Differential equations, asymptotic analysis, and mathematical physics. **97m:00024**
Discrete analysis ★ Дискретный анализ. (Russian) [Discrete analysis] **97k:00015**
Dubna ★ Geometry and integrable models. **97d:00022**
Eindhoven ★ Algorithms for algebra. **97m:00022**
Energy methods in continuum mechanics ★ Energy methods in continuum mechanics. **97h:00011**
Erice ★ Variational methods in nonlinear analysis. **97k:00022**
Errata:
First International Colloquium on Graphs and Optimization (GOI), 1992 Erratum: *First International Colloquium on Graphs and Optimization (GOI), 1992* [Discrete Appl. Math. **65** (1996), no. 1-3; MR 96j:00016]. **97e:00005**
Extremal Riemann surfaces ★ Extremal Riemann surfaces. **97g:00020**
Festschrift:
Sucheston, Louis ★ Convergence in ergodic theory and probability. **97d:00018**
Freiberg ★ 33. Tagung des Lotharingischen Kombinatorikseminars. [33rd Conference of the Lotharingian Seminar for Combinatorics] **97d:00017**
Functional analytic methods in complex analysis and applications to partial differential equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
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— ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
Generalized functions and differential equations ★ Chōkansū to bibun hōteishiki. (Japanese) [Generalized functions and differential equations] **97c:00041**
Geometric aspects of real singularities ★ Jitsu tokui ten no kikagakuteki yōsō. [Geometric aspects of real singularities] **97c:00042**
Geometry and integrable models ★ Geometry and integrable models. **97d:00022**
Geometry and physics ★ Geometry and physics. **97i:00013**
Geometry of toric varieties and convex polytopes ★ Tōrikku tayōtai no kika to totsu tamentai. (Japanese) [Geometry of toric varieties and convex polytopes] **97c:00043**
Gödel '96 ★ Gödel '96. **97j:00019**
Gökova ★ Proceedings of Gökova Geometry-Topology Conference 1994. **97f:00024**
Grado ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **97c:00056**
Groningen ★ 31st Dutch Mathematical Conference. **97b:00020**
Group theoretical methods in physics ★ Group theoretical methods in physics. **97d:00023**
Heat kernel techniques and quantum gravity ★ Heat kernel techniques and quantum gravity. **97f:00018**
Houghton, MI ★ Second Upper Michigan Combinatorics Workshop on Designs, Codes and Geometries. **97f:00030a**
— ★ Codes, designs and geometry. **97f:00030b**
Hyperbolic problems: theory, numerics, applications ★ Hyperbolic problems: theory, numerics, applications. **97k:00016**
IFIP Conference:
Control and Shape Optimization ★ Partial differential equation methods in control and shape analysis. **97m:00027**
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Image models (and their speech model cousins) ★ Image models (and their speech model cousins). **97i:00014**
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International Linear Algebra Year ★ International Linear Algebra Year. **97c:00046**
Irvine, CA ★ National Academy of Sciences Colloquium on Symmetries Throughout the Sciences. **97j:00016**
Jaca ★ Total positivity and its applications. **97f:00029**
Jawor ★ III Environmental Mathematical Conference. **97a:00028**
Jerusalem ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Karlsruhe ★ Parameter identification and inverse problems in hydrology, geology and ecology. **97h:00012**
Karpacz ★ Chaos—the interplay between stochastic and deterministic behaviour. **97m:00023**
Katata ★ Structure of solutions of differential equations. **97j:00022**
Kazimierz Dolny ★ Classical analysis. **97g:00018**
Kiev ★ Symmetry in nonlinear mathematical physics. Vol. 3. **97a:00036**
Krasnoyarsk ★ Algebra. **97c:00034**
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Kyoto ★ Algorithms, fractals, and dynamics. **97b:00014**
— ★ Structure of solutions of differential equations. **97j:00022**
Labyrinth of the continuum ★ Le labyrinthe du continu. (French) [The labyrinth of the continuum] **97e:00006**
Labyrinthe du continu ★ Le labyrinthe du continu. (French) [The labyrinth of the continuum] **97e:00006**
L'Aquila ★ Bifurcation and chaos in solid and structural dynamics.
Large-scale structures in acoustics and electromagnetics ★ Large-scale structures in acoustics and electromagnetics. **97a:00030**
Lecce ★ II Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. (Italian) [2nd Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97b:00019**
— ★ Nonlinear physics: theory and experiment. **97m:00026**
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Madurai ★ Trends in algebra and topology. **97a:00038**
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American Mathematical Society ★ Extremal Riemann surfaces. **97g:00020**
American Mathematical Society/Israel Mathematical Union ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Current Ideas in Mechanics and Related Fields ★ Proceedings of the Third Meeting on Current Ideas in Mechanics and Related Fields. **97f:00025**
Philosophy of Science Association ★ PSA 1996. Part I. **97d:00025**
Total Positivity and its Applications ★ Total positivity and its applications. **97f:00029**

Melbourne ★ The role of mathematics in modern engineering. **97f:00026**
Milan ★ V Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. [5th Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97c:00038**
Minneapolis, MN ★ Nonlinear stochastic PDEs. **97a:00031**
— ★ Image models (and their speech model cousins). **97i:00014**
Minsk ★ Краевые задачи, специальные функции и дробное исчисление. (Russian) [Boundary value problems, special functions and fractional calculus] **97g:00017**
Mirror symmetry ★ Mirror symmetry. II. **97d:00024**
Models and algorithms for planning and scheduling problems ★ Models and algorithms for planning and scheduling problems. **97f:00019**
Mons ★ Journées Montoises. [Mons Conference] **97i:00012**
Moscow ★ Proceedings of the XX Workshop on Function Theory. **97d:00027**
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Nonlinear dynamics and stochastic mechanics ★ Nonlinear dynamics and stochastic mechanics. **97b:00021**
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Notre Dame, IN ★ Current and future directions in applied mathematics. **97j:00017**
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Lawler, Eugene L. ★ Models and algorithms for planning and scheduling problems. **97f:00019**
Magari, Roberto ★ Logic and algebra. **97c:00047**
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Osijek ★ Mathematical Colloquium. **97i:00011**
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Painlevé functions and asymptotic analysis ★ Panruve kansū to zenkin kaiseki. (Japanese) [Painlevé functions and asymptotic analysis] **97b:00022**
Parameter identification and inverse problems in hydrology, geology and ecology ★ Parameter identification and inverse problems in hydrology, geology and ecology. **97h:00012**
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Partial differential equation methods in control and shape analysis ★ Partial differential equation methods in control and shape analysis. **97m:00027**
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Penang ★ Computational methods and function theory 1994. **97d:00016**
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Porto-Novo ★ Proceedings of the UMA Symposium.
Potential theory and degenerate partial differential operators ★ Potential theory and degenerate partial differential operators. **97f:00021**
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Powys ★ Stochastic analysis and applications. **97m:00028**
Prague ★ Quantum groups and physics. **97a:00034**
— ★ Quantum groups and integrable systems. I. **97j:00020**
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Geometry-Topology Conference ★ Proceedings of Gökova Geometry-Topology Conference 1994. **97f:00024**
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Workshop "Functional Analysis: Methods and Applications" ★ Proceedings of the Workshop "Functional Analysis: Methods and Applications". **97c:00050**
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— ★ Representation theory of groups, algebras, and orders. **97g:00023**
Representation theory of groups and analysis on homogeneous spaces ★ Gun no hyōgen ron to tōshitsu kūkan ue no kaisekigaku. (Japanese) [Representation theory of groups and analysis on homogeneous spaces] **97a:00035**
Research on functional analysis and algebraic analysis of differential equations ★ Bibun hōteishiki no kansū kaisekiteki oyobi daisū kaisekiteki kenkyū. [Research on functional analysis and algebraic analysis of differential equations] **97d:00030**
Research on nonlinear analysis and convex analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Research on nonlinear analysis and convex analysis] **97c:00053**
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Sanremo ★ Proceedings of the Second International Workshop on Nonlinear Kinetic Theories and Mathematical Aspects of Hyperbolic Systems. **97c:00052**
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Santiago ★ Instabilities and nonequilibrium structures. V. **97c:00045**
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Differential Geometry, Partial Differential Equations and Numerical Analysis ★ Memorias. Tercera Escuela de Verano en Geometría Diferencial, Ecuaciones Diferenciales Parciales y Análisis Numérico. [Proceedings of the Third Summer School on Differential Geometry, Partial Differential Equations and Numerical Analysis] **97h:00013**
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Geometry and Physics ★ The Proceedings of the Winter School "Geometry and Physics". **97a:00032**
Group Theory ★ Algebraic and analytic methods in representation theory. **97d:00014**
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— ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00036**
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Deformations of Mathematical Structures Applied in Physics ★ Generalizations of complex analysis and their applications in physics. I. **97c:00040**
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— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
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Deformation of Group Schemes and Applications to Number Theory ★ Gun sukiimu no henkei to seisūron e no oyō. (Japanese) [Deformation of group schemes and applications to number theory] **97d:00019**
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Generalized Functions and Differential Equations ★ Chōkansū to bibun hōteishiki. (Japanese) [Generalized functions and differential equations] **97c:00041**
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Geometry of Toric Varieties and Convex Polytopes ★ Tōrikku tayōtai no kika to totsu tamentai. (Japanese) [Geometry of toric varieties and convex polytopes] **97c:00043**
Hilbert, David[1] ☆: A Symposium on David Hilbert. **97k:00020**
Infinite-dimensional Harmonic Analysis ★ Infinite-dimensional harmonic analysis. **97c:00044**
Large-scale Structures in Acoustics and Electromagnetics ★ Large-scale structures in acoustics and electromagnetics. **97a:00030**
Logic at St. Petersburg ★ Papers in honor of the Symposium on Logical Foundations of Computer Science, "Logic at St. Petersburg". **97a:00037**
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Structure of Spaces of Analytic and Harmonic Functions and the Theory of Operators on Them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
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Union Mathématique Africaine ★ Proceedings of the UMA Symposium.
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Variational Problems and Related Topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **97j:00023**
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Taipei ★ Applications of fuzzy theory to complex systems. **97i:00009**
Tallinn ★ Problems of pure and applied mathematics. **97f:00022**
Tampa, FL ★ World Congress of Nonlinear Analysts '92. Vol. I–IV. **97a:00029**
Topology in nonlinear analysis ★ Topology in nonlinear analysis. **97k:00021**
Total positivity and its applications ★ Total positivity and its applications. **97f:00029**
Toulouse ★ International Linear Algebra Year. **97c:00046**
Toyonaka ★ Group theoretical methods in physics. **97d:00023**
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Trieste ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
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Various problems in stochastic numerical analysis ★ Kakuritsu sūchi kaiseki ni okeru sho mondai. II. (Japanese) [Various problems in stochastic numerical analysis. II] **97b:00026**
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Function Theory ★ Proceedings of the XIX Workshop on Function Theory. **97c:00051**
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Generalizations of Complex Analysis ★ Generalizations of complex analysis and their applications in physics. I. **97c:00040**
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— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
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Nonlinear Physics: Theory and Experiment ★ Nonlinear physics: theory and experiment. **97m:00026**
Nonlinear Stochastic Partial Differential Equations ★ Nonlinear stochastic PDEs. **97a:00031**
Parameter Identification and Inverse Problems in Hydrology, Geology and Ecology ★ Parameter identification and inverse problems in hydrology, geology and ecology. **97h:00012**
Representation Theory of Groups, Algebras, and Orders ★ Representation theory of groups, algebras, and orders. **97d:00029**
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00B55 Miscellaneous volumes of translations

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00B60 Collections of reprinted articles [see also 01A75]

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01–XX History and biography [see also the classification number –03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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(Hentschel, Ann M.) *see* **Physics and National Socialism, 97d:01001**
(Hentschel, Klaus) *see* **Physics and National Socialism, 97d:01001**
(Leibniz, Gottfried Wilhelm) *see* **Bibliography: Leibniz, Gottfried Wilhelm, 97i:01001**
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Items with secondary classifications in 01–01

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Rowe, David E. New trends and old images in the history of mathematics. **97d:01002**
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01–06 Proceedings, conferences, collections, etc.

(Ariew, Roger) *see* **Revolution and continuity, 97i:01002**
(Ausejo, Elena) *see* **Paradigms and mathematics, 97m:01004**
(Barker, Peter) *see* **Revolution and continuity, 97i:01002**
(Bottazzini, Umberto) *see* **Studies in the history of modern mathematics, 97m:01005**
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Anniversary of the First Publication of *Lineale Ausdehnungslehre* ★ Hermann Graßmann. (German) **97a:01002**
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Faiths and Cultures in the Padua Area in the Late Nineteenth and Early Twentieth Century ★ Fedi e culture in area Padana tra otto e novecento. (Italian) [Faiths and cultures in the Padua area in the late nineteenth and the early twentieth century] **97c:01001**
History of Mathematics and Education: Ideas and Experiences ★ History of mathematics and education: ideas and experiences. **97f:01002**
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Mathematical Education ★ Vita mathematica. **97a:01003**
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Music and mathematics ★ Musique et mathématiques. (French) [Music and mathematics] **97m:01003**
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Paradigms and mathematics ★ Paradigms and mathematics. **97m:01004**
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Studies in the history of modern mathematics ★ Studies in the history of modern mathematics. II. **97m:01005**
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(Fauvel, John) *see* **Work of Newton, 97b:01024**
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(Lee, Lesley) *see* **Approaches to algebra, 97c:00024**
(Lübbig, Heinz) *see* **Inverse problem, 97b:00028**
(Newton, Isaac) *see* **Work of Newton, 97b:01024**
(Shortland, Michael) *see* **Work of Newton, 97b:01024**
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Death of von Helmholtz, Hermann ★ The inverse problem. **97b:00028**
Approaches to algebra ★ Approaches to algebra. **97c:00024**
Boston, MA ★ A Symposium on David Hilbert. **97k:00020**
Inverse problem ★ The inverse problem. **97b:00028**
Newtons Werk ★ Newtons Werk. (German) [Work of Newton] **97b:01024**
No truth except in the details ★ No truth except in the details. **97c:00057**
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01Axx History of mathematics and mathematicians

01A05 General histories, source books

Abd-el-Malek, Mina B. Development of mathematics from the ancient Egyptians to the era of super computers. (English and German summaries) (*see* **97k:00017**)
Aczel, Amir D. ★ Fermat's last theorem. (English summary) **97m:01006**
Barbin, Évelyne *see* **Chabert, Jean-Luc; et al., 97f:01003**
Borowczyk, Jacques *see* **Chabert, Jean-Luc; et al., 97f:01003**

Chabert, Jean-Luc (*with* Barbin, Évelyne; Guillemot, Michel; Michel-Pajus, Anne; Borowczyk, Jacques; Djebbar, Ahmed; Martzloff, Jean-Claude) ★ Histoire d'algorithmes. (French) [History of algorithms] **97f:01003**
Charbonneau, Louis From Euclid to Descartes: algebra and its relation to geometry. (English summary) **97h:01002**
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Ehrlich, Philip General introduction. (*see* **97a:00004**)
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Lumpkin, Beatrice From Egypt to Benjamin Banneker: African origins of false position solutions. (*see* **97a:01003**)
Martzloff, Jean-Claude *see* **Chabert, Jean-Luc; et al., 97f:01003**
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Moreno Armella, Luis Mathematics, explaining and understanding. (Spanish. English and Spanish summaries)
Otte, Michael Gegenstand und Methode in der Geschichte der Mathematik. [Subject and method in the history of mathematics] **97i:01004**
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Radford, Luis The roles of geometry and arithmetic in the development of algebra: historical remarks from a didactic perspective. (English summary) **97g:01002**
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Siu, Man Keung Concept of function—its history and teaching. (*see* **97a:00019**)
— The story of calculus. II. **97k:01002**
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Ypma, Tjalling J. Historical development of the Newton-Raphson method. (English summary) **97b:01003**

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Barbin, Évelyne The role of problems in the history and teaching of mathematics. (*see* **97a:01003**)
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Bergmans, Luc Désirer, faillir et feindre d'atteindre dans la poursuite de la vérité. Réflexions sur la négation volitionnelle. [Desiring, failing, and pretending to succeed in the pursuit of truth. Reflections on volitional negation] (*see* **97e:03008**)
Caruso, F. (*with* Moreira Xavier, R.) Causa efficiens versus causa formalis: origins of the modern discussion of the dimensionality of space. (Portuguese. English and Portuguese summaries) **97b:00003**
Damerow, Peter ★ Abstraction and representation. (English summary) **97b:00005**
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(Fauvel, John) *see* **Learn from the masters, 97a:00019**
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Shearer, Rhonda Roland From flatland to fractaland: new geometries in relationship to artistic and scientific revolutions. (English summary) **97j:00011**
Stewart, Ian ★ From here to infinity. (English summary) **97c:00004**
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Music and mathematics ★ Musique et mathématiques. (French) [Music and mathematics] **97m:01003**
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01A07 Ethnomathematics, general

Ascher, Marcia Models and maps from the Marshall Islands: a case in ethnomathematics. (English, French and German summaries) **97h:01004**
D'Ambrosio, Ubiratan Ethnomathematics: an explanation. (*see* **97a:01003**)
Deakin, Michael A. B. The origins of our number-words. (English summary) **97c:01003**

01A10 Paleolithic, Neolithic

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Huylebrouck, D. The bone that began the space odyssey. **97i:01005**

01A12 Indigenous cultures of the Americas

Aveni, Anthony F. (*with* Morandi, Steven J.; Peterson, Polly A.) The Maya number of time: intervalic time reckoning in the Maya codices. I. **97a:01004**
Morandi, Steven J. *see* **Aveni, Anthony F.; et al., 97a:01004**
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01A13 Other indigenous cultures (non-European)

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Ascher, Marcia Models and maps from the Marshall Islands: a case in ethnomathematics. (English, French and German summaries) **97h:01004**
Lumpkin, Beatrice From Egypt to Benjamin Banneker: African origins of false position solutions. (*see* **97a:01003**)

01A16 Egyptian

Colman, W. J. A. Pi-eyed in Giza. (English summary) **97c:01004**
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(Goyon, Jean-Claude) *see* **Couchoud, Sylvia, 97c:01005**
Ritter, James Chacun sa vérité: les mathématiques en Égypte et en Mésopotamie. [To each his own: mathematics in Egypt and in Mesopotamia] (*see* **97a:01001**)

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Høyrup, Jens Lines with breadth: a neglected geometrical ambiguity. (Italian) **97d:01047**

01A17 Babylonian

Exarchakos, Theodoros G. Babylonian mathematics and Pythagorean triples. (Greek. English and Greek summaries) **97m:01009**
Fermor, John Timing the sun in Egypt and Mesopotamia. (English summary) **97m:01010**
Høyrup, Jens Changing trends in the historiography of Mesopotamian mathematics: an insider's view. **97a:01005**
Steele, John M. (*with* Stephenson, F. R.) Lunar eclipse times predicted by the Babylonians.
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01A20 Greek, Roman

Aaboe, A. (*with* Berggren, J. L.) Didactical and other remarks on some theorems of Archimedes and infinitesimals. **97m:01011**
Adachi, Norio The dawn of mathematical philosophy. **97j:01002**
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Berggren, J. L. (*with* Thomas, R. S. D.) ★ Euclid's *Phaenomena*. **97a:01006**
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Del Santo, Paolo (*with* Strano, Giorgio) Observational evidence and the evolution of Ptolemy's lunar model. (English and Italian summaries) **97m:01012**

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Dubuc, Serge *see* **Deslauriers, Gilles**, **97a:01007**
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(Euclid) *see* **Berggren, J. L.**, **97a:01006** *and* **Navarro Loidi, Juan**, (**97m:01004**)
Fomenko, A. T. *see* **Kalashnikov, Vladimir Vyacheslavovich; et al.**, (**96j:01001**) *and* **Efremov, Yu. N.**, (**96j:01001**)
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Navarro Loidi, Juan Les différentes versions des *Éléments* d'Euclide publiées en espagnol aux XVIe, XVIIe et XVIIIe siècles. Permanence ou changement. [The different versions of Euclid's *Elements* published in Spanish in the sixteenth, seventeenth and eighteenth centuries. Constancy and change] (*see* **97m:01004**)
Nosovskiĭ, G. V. *see* **Kalashnikov, Vladimir Vyacheslavovich; et al.**, (**96j:01001**) *and* **Efremov, Yu. N.**, (**96j:01001**)
Ntziachrēstos, E. *see* **Kontogiánnēs, D. G.**, (**97k:00017**)
Panchenko, Dmitri Thales and the origin of theoretical reasoning.
Ptolemy of Alexandria *Tetrabiblos* or *Mathematical treatise in four volumes*. (Russian) **97d:01003**
— *see also* **Smith, A. Mark**, **97g:01005** *and* **Goldstein, Bernard R.**, **97m:01013**
Radford, Luis The transformation of a mathematical theory: the case of the polygonal numbers. (Spanish. English and Spanish summaries) **97a:01010**
Shevchenko, M. Yu. *see* **Efremov, Yu. N.**, (**96j:01001**)
Smith, A. Mark ★ Ptolemy's theory of visual perception. **97g:01005**
Strano, Giorgio *see* **Del Santo, Paolo**, **97m:01012**
Tahir, Hussein Pappus and mathematical induction. **97a:01011**
Taisbak, Christian Marinus Zeuthen and Euclid's *Data* 86 algebra—or A lemma about intersecting hyperbolas? **97h:01005**
Thomas, R. S. D. *see* **Berggren, J. L.**, **97a:01006**
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(Alexander) *see* **Giannakis, Elias**
(al-Andalusī, Ṣāʿid) *see* **Kunitzsch, Paul**
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(Aristotle) *see* **Loeck, Gisela**, **97h:00003** *and* **Giannakis, Elias**
Berggren, J. L. al-Kūhī's "Filling a lacuna in Book II of Archimedes" in the version of Naṣīr al-Dīn al-Tūsī. **97a:01012**
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Correspondence:
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(Borkar, Vivek S.) *see* **Mitter, Sanjoy K., (97g:93007)**
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(Micciancio, D.) *see* **Mitter, Sanjoy K., (97g:93007)**
Mitter, Sanjoy K. Logic and mathematical programming. (English summary) (*see* **97g:93007**)

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Finberg, David (*with* Mainetti, Matteo; Rota, Gian-Carlo) The logic of commuting equivalence relations. **97j:06011**
Mainetti, Matteo *see* **Finberg, David; et al., 97j:06011**
Rota, Gian-Carlo *see* **Finberg, David; et al., 97j:06011**
Sandu, Gabriel The logic of informational independence and finite models. (English summary) **97m:03055**
Woleński, Jan Logical content of two legal principles. **97b:03035**

03B99 None of the above, but in this section

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(Balint, Stefan) *see* **Costescu, Ion**
Costescu, Ion ★ The cosmical knowledge and the human computer.
Curtis, Sharon (*with* Lowe, Gavin) Proofs with graphs. (English summary) **97b:68133**
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Luengo, Isabel A diagrammatic inference system for geometry. **97b:03010**

03Cxx Model theory

Makowsky, J. A. Model theory and computer science: an appetizer. **97k:03046**

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(Leivant, Daniel) *see* **Logic and computational complexity, 97m:03004**
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03C05 Equational classes, universal algebra [see also 08Axx]

Chajda, Ivan (*with* Emanovský, Petr) Σ-isomorphic algebraic structures. (English summary) **97f:03047**
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Krivol, S. L. On a basis of the intersection of sets of term equalities in a free algebra with the commutativity relation. (Russian. English summary) **97m:03063**
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Astesiano, Egidio (*with* Cerioli, Maura) Free objects and equational deduction for partial conditional specifications. (English summary) **97c:68096**
Baader, Franz (*with* Schulz, Klaus U.) Unification in the union of disjoint equational theories: combining decision procedures. (English summary) **97f:68163**
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Boudet, Alexandre (*with* Contejean, Evelyne) "Syntactic" AC-unification. (English summary) **97i:68174**
Cerioli, Maura *see* **Astesiano, Egidio, 97c:68096**
Chajda, Ivan (*with* Emanovský, Petr) Modularity and distributivity of the lattice of Σ-closed subsets of an algebraic structure. (English summary) **97b:06002**
Charatonik, Witold Set constraints in some equational theories. (English summary) **97g:68142**
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Davey, Brian A. (*with* Haviar, Miroslav; Priestley, H. A.) The syntax and semantics of entailment in duality theory. (English summary) **97d:08010**
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03C10 Quantifier elimination and related topics

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Nowak, Krzysztof Jan On a universal axiomatization of the real closed fields. (English summary) **97j:03064**

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Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie Françoise) Computing roadmaps of semi-algebraic sets (extended abstract). (English summary) (*see* **97g:68005**)

Clark, David M. (*with* Schmid, Jürg) The countable homogeneous universal model of $\mathscr{B}_2$. (English summary) **97e:03053**

González-Vega, Laureano Applying quantifier elimination to the Birkhoff interpolation problem. (English summary) **97h:41004**

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03C13 Finite structures

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— (*with* Hella, Lauri) The expressive power of finitely many generalized quantifiers. (English summary) **97b:03051**

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03C20 Ultraproducts and related constructions

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03C25 Model-theoretic forcing

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03C35 Categoricity and completeness of theories

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03C40 Interpolation, preservation, definability

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03C50 Models with special properties (saturated, rigid, etc.)

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— (*with* Reeken, Michael) Internal approach to external sets and universes. II. External universes over the universe of bounded set theory. (English summary) **97f:03087b**
— (*with* Reeken, Michael) Internal approach to external sets and universes. III. Partially saturated universes. (English summary) **97f:03087c**
Koppelberg, Sabine *see* **Fuchino, Sakaé**, **97e:03055**
Kossak, Roman (*with* Kotlarski, Henryk) On extending automorphisms of models of Peano arithmetic. (English summary) **97d:03050**
Kotlarski, Henryk *see* **Kossak, Roman**, **97d:03050**
Reeken, Michael *see* **Kanovei, Vladimir**, **97f:03087a**; **97f:03087b** *and* **97f:03087c**
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Shi, Niandong *see* **Baldwin, John T.**, **97c:03103**

03C52 Properties of classes of models

Items with secondary classifications in 03C52

Goldblatt, Robert Elementary generation and canonicity for varieties of Boolean algebras with operators. **97a:06028**
Truss, J. K. Betweenness relations and cycle-free partial orders. **97a:06007**

03C55 Set-theoretic model theory

Items with secondary classifications in 03C55

Amir, Eyal (*with* Judah, Haim) Souslin absoluteness, uniformization and regularity properties of projective sets. (English summary) **97b:03066**
Coleman, Eoin Jonsson groups, rings and algebras. **97d:03042**
Fuchino, Sakaé (*with* Koppelberg, Sabine) On v^+-saturated ordered fields and Boolean algebras. **97e:03055**
Judah, Haim *see* **Amir, Eyal**, **97b:03066**
Koppelberg, Sabine *see* **Fuchino, Sakaé**, **97e:03055**
Németi, István Decidable versions of first order logic and cylindric-relativized set algebras. (English summary) **97b:03018**
— Ontology can turn negative results to positive (an overview of recent results). **97h:03076**

03C57 Recursion-theoretic model theory [see also 03D45]

Cenzer, Douglas (*with* Remmel, Jeffrey B.) Feasibly categorical models. (English summary) (*see* **97m:03004**)
Fedoryaev, S. T. Recursively incompatible algorithmic problems on 1-constructivizable distributive lattices with relative complements. (Russian. Russian summary) **97d:03048**
Grädel, Erich (*with* Gurevich, Yuri) Metafinite model theory. (English summary) (*see* **97m:03004**)
Gurevich, Yuri *see* **Grädel, Erich**, (**97m:03004**)
Remmel, Jeffrey B. *see* **Cenzer, Douglas**, (**97m:03004**)

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Grohe, Martin Some remarks on finite Löwenheim-Skolem theorems. (English summary) **97j:03068**
Kossak, Roman (*with* Kotlarski, Henryk) On extending automorphisms of models of Peano arithmetic. (English summary) **97d:03050**
Kotlarski, Henryk *see* **Kossak, Roman**, **97d:03050**
Krivoĭ, S. L. On a basis of the intersection of sets of term equalities in a free algebra with the commutativity relation. (Russian. English summary) **97m:03063**
Shlapentokh, Alexandra Rational separability over a global field. (English summary) **97d:11190**
Toffalori, Carlo Decidability for $\mathbf{Z}[G]$-modules when G is cyclic of prime order. (English summary) **97g:03010**
Wells, Benjamin Franklin, III Pseudorecursive varieties of semigroups. I. **97k:20099**

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Problems:
Recursion theory Appendix: questions in recursion theory. **97i:03027**

03C60 Model-theoretic algebra [see also 08C10, 12Lxx, 13L05]

Altinel, Tuna Groups of finite Morley rank with strongly embedded subgroups. **97c:03105**
Bélair, Luc (*with* Bousquet, Michel) Types dans les corps valués. (English and French summaries) [Types in fields with valuation] **97e:03054**
— (*with* Haskell, Deirdre) Dependence on parameters in analogues of Hilbert's seventeenth problem. **97k:03047**

Bousquet, Michel *see* **Bélair, Luc, 97e:03054**
Chapuis, Olivier From "metabelian Q-vector spaces" to new ω-stable groups. **97g:03043**
Delon, Françoise Formal power series. (English summary) **97c:03106**
Durnev, V. G. On elementary theories of linear groups over the integers. (Russian. Russian summary) **97c:03107**
Fuchino, Sakaé (*with* Koppelberg, Sabine) On v^*-saturated ordered fields and Boolean algebras. **97e:03055**
Haskell, Deirdre *see* **Bélair, Luc, 97k:03047**
Khelif, Anatole Existentially closed models via constructible sets: there are $2^{\aleph_0}$ existentially closed pairwise nonelementarily equivalent existentially closed ordered groups. (English summary) **97c:03108**
Koppelberg, Sabine *see* **Fuchino, Sakaé, 97e:03055**
Kuhlmann, Franz-Viktor Abelian groups with contractions. II. Weak o-minimality. (English summary) **97g:03044**
Lavendhomme, R. (*with* Lucas, Thierry Eugène) On modules and crossed modules. **97f:03053**
Lucas, Thierry Eugène *see* **Lavendhomme, R., 97f:03053**
Macintyre, Angus J. Exponential algebra. (English summary) **97h:03064**
Nesin, Ali Permutation groups of finite Morley rank. (*see* **97c:03011**)
Pillay, Anand Model theory, differential algebra, and number theory. **97e:03056**
Toffalori, Carlo Some decidability results for $\mathbf{Z}[G]$-modules when G is cyclic of squarefree order. (English summary) **97j:03075**

Items with secondary classifications in 03C60

Baudisch, Andreas Another stable group. (English summary) **97j:03069**
Boughattas, Sedki L'induction ouverte dans les anneaux discrets ordonnés et normaux n'est pas finiment axiomatisable. (French summary) [Open induction in ordered and normal discrete rings is not finitely axiomatizable] **97m:03068**
Dickmann, M. A. Le continu au premier ordre. [The first-order theory of the continuum] **97h:14075**
Evans, David M. (*with* Hrushovski, Ehud) The automorphism group of the combinatorial geometry of an algebraically closed field. **97f:51012**
Gaglione, Anthony M. (*with* Spellman, Dennis) Parametric words and models of the elementary theory of non-abelian free groups. (English summary) **97a:20042**
— (*with* Spellman, Dennis) More model theory of free groups. (English summary) **97a:20041**
Holland, Kitty L. Strongly minimal fusions of vector spaces. (English summary) **97j:03070**
Hrushovski, Ehud (*with* Pillay, Anand) Definable subgroups of algebraic groups over finite fields. **97f:20059**
— The Mordell-Lang conjecture for function fields. (English summary) **97h:11154**
— *see also* **Evans, David M., 97f:51012**
Jumpertz, Pierre Linear logic and real closed fields: a way to handle situations dynamically. (English summary) (*see* **97m:68003**)
Kawakami, Tomohiro Curve selection lemma and its application in the o-minimal structure. (English summary) **97i:58010**
Kramer, Linus (*with* Tent, Katrin) Algebraic polygons. (English summary) **97d:51005**
Macpherson, Dugald (*with* Steinhorn, Charles) On variants of o-minimality. **97e:03050**
Nowak, Krzysztof Jan On proper morphisms between algebraic varieties. (English summary) **97g:14001**
— On a universal axiomatization of the real closed fields. (English summary) **97j:03064**
Palyutin, E. A. On coverings by classes of permutable equivalence relations. (Russian. Russian summary) **97a:05025**
Passman, Donald S. Ultraproducts and the group ring semiprimitivity problem. (English summary) **97f:16048**
Pillay, Anand Definable sets in generic complex tori. **97m:32045**
— *see also* **Hrushovski, Ehud, 97f:20059**
Spellman, Dennis *see* **Gaglione, Anthony M., 97a:20041** *and* **97a:20042**
Steinhorn, Charles *see* **Macpherson, Dugald, 97e:03050**
Tent, Katrin *see* **Kramer, Linus, 97d:51005**
Toffalori, Carlo Decidability for $\mathbf{Z}[G]$-modules when G is cyclic of prime order. (English summary) **97g:03010**
Trlifaj, Jan Two problems of Ziegler and uniform modules over regular rings. (English summary) **97k:16008**
Tyukov, V. A. First-order theory of integral semigroup rings. (Russian) **97f:20088**

03C62 Models of arithmetic and set theory [see also 03Hxx]

Boughattas, Sedki L'induction ouverte dans les anneaux discrets ordonnés et normaux n'est pas finiment axiomatisable. (French summary) [Open induction in ordered and normal discrete rings is not finitely axiomatizable] **97m:03068**
Cegielski, Patrick (*with* Matiyasevich, Yu. V.; Richard, Denis) Definability and decidability issues in extensions of the integers with the divisibility predicate. (English and French summaries) **97d:03049**
Gencer, Çiğdem (*with* Terziler, Mehmet) On the additive group structure of nonstandard models of Z. (English and Turkish summaries) **97a:03047**
Kanovei, Vladimir On external Scott algebras in nonstandard models of Peano arithmetic. (English summary) **97f:03054**
Kaye, Richard William Constructing κ-like models of arithmetic. (English summary) **97m:03069**
Kossak, Roman (*with* Schmerl, James H.) The automorphism group of an arithmetically saturated model of Peano arithmetic. **97a:03048**
— (*with* Kotlarski, Henryk) On extending automorphisms of models of Peano arithmetic. (English summary) **97d:03050**
Kotlarski, Henryk *see* **Kossak, Roman, 97d:03050**
Marker, David Model theory and exponentiation. **97c:03109**
Matiyasevich, Yu. V. *see* **Cegielski, Patrick; et al., 97d:03049**
Richard, Denis *see* **Cegielski, Patrick; et al., 97d:03049**
Schmerl, James H. *see* **Kossak, Roman, 97a:03048**
Terziler, Mehmet *see* **Gencer, Çiğdem, 97a:03047**
Yasumoto, Masahiro Bounded second order arithmetic. (Japanese) (*see* **97c:03011**)

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Bruyère, Véronique *see* **Point, Françoise, 97j:11065**
Cunningham, Daniel W. The real core model and its scales. (English summary) **97c:03125**
Ferreira, Fernando On end-extensions of models of $\neg\exp$. (English summary) **97d:03074**
Gabrielov, A. M. Complements of subanalytic sets and existential formulas for analytic functions. (English summary) **97h:32007**
Groszek, Marcia J. (*with* Mytilinaios, Michael E.; Slaman, Theodore A.) The Sacks density theorem and Σ^1_2-bounding. (English summary) **97k:03054**
Kanovei, Vladimir (*with* Reeken, Michael) Internal approach to external sets and universes. I. Bounded set theory. (English summary) **97f:03087a**
— (*with* Reeken, Michael) Internal approach to external sets and universes. II. External universes over the universe of bounded set theory. (English summary) **97f:03087b**
— (*with* Reeken, Michael) Internal approach to external sets and universes. III. Partially saturated universes. (English summary) **97f:03087c**
Langevin, Michel Sur quelques conséquences de la conjecture (*abc*) en arithmétique et en logique. (English summary) [Some consequences of the (*abc*) conjecture in arithmetic and logic] **97k:11052**
Macintyre, Angus J. (*with* Wilkie, A. J.) On the decidability of the real exponential field. (*see* **97m:01097**)
— Exponential algebra. (English summary) **97h:03064**
Mytilinaios, Michael E. *see* **Groszek, Marcia J.; et al., 97k:03054**
Pkhakadze, Sh. On mathematical theories. (Russian. English and Georgian summaries) **97m:03025**
Point, Françoise (*with* Bruyère, Véronique) On the Cobham-Semenov theorem. (English summary) **97j:11065**
Reeken, Michael *see* **Kanovei, Vladimir, 97f:03087a; 97f:03087b** *and* **97f:03087c**
Slaman, Theodore A. *see* **Groszek, Marcia J.; et al., 97k:03054**
Sommer, Richard Transfinite induction within Peano arithmetic. (English summary) **97f:03075**
Veschambre, Philippe Cardinalité, saturation et finitude. [Cardinality, saturation and finiteness] **97m:03099**
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03C65 Models of other mathematical theories

Kikuchi, Makoto Introduction to model theory for real algebraic geometry. (Japanese) (*see* **97c:00042**)
Thomas, Simon R. Reducts of random hypergraphs. (English summary) **97k:03048**
Yamada, Hiroshi On the Tarski-Seidenberg theorem. (Japanese) (*see* **97c:00042**)

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Brand, Neal (*with* Morton, Margaret) Uniform generalized Steinhaus graphs. (English summary) **97a:05178**
Clark, David M. (*with* Schmid, Jürg) The countable homogeneous universal model of $\mathcal{S}\mathcal{B}_2$. (English summary) **97e:03053**
Czédli, Gábor A Horn sentence in coalition lattices. **97h:06013**
Morton, Margaret *see* **Brand, Neal, 97a:05178**
Raphael, Deborah Commensurability and elementary equivalence of polycyclic groups. (English summary) **97f:20041**
Schmid, Jürg *see* **Clark, David M., 97e:03053**
Schreiber, Peter On a constructive property of Poincaré's model of the hyperbolean plane. (French summary) **97e:51018**
Sigstam, Inger Formal spaces and their effective presentations. (English summary) **97a:03053**
Truss, J. K. Betweenness relations and cycle-free partial orders. **97a:06007**

03C68 Other classical first-order model theory

Items with secondary classifications in 03C68

Casanovas, Enrique (*with* Farré, Rafel) Omitting types in incomplete theories. (English summary) **97d:03047**
van den Dries, Lou (*with* Miller, Chris) Geometric categories and o-minimal structures. **97i:32008**
Farré, Rafel *see* **Casanovas, Enrique, 97d:03047**
Miller, Chris *see* **van den Dries, Lou, 97i:32008**
Otto, Martin (*with* Van den Bussche, Jan) First-order queries on databases embedded in an infinite structure. (English summary) **97g:68056**
Van den Bussche, Jan *see* **Otto, Martin, 97g:68056**
Weidenbach, Christoph First-order tableaux with sorts. (English summary) **97h:03013**

03C70 Logic on admissible sets

Items with secondary classifications in 03C70

Ershov, Yuril Leonidovich ★ Definability and computability. **97j:03089a**
— ★ Определимость и вычислимость. (Russian. Russian summary) [Definability and computability] **97j:03089b**

03C75 Other infinitary logic

Items with secondary classifications in 03C75

Adámek, Jiří (*with* Rosický, Jiří) Finitary sketches and finitely accessible categories. (English summary) **97b:03086**
Friedman, Sy D. (*with* Velickovic, Boban) Nonstandard models and analytic equivalence relations. (English summary) **97g:03051**
Grädel, Erich (*with* Gurevich, Yuri) Metafinite model theory. (English summary) (*see* **97m:03004**)
Gurevich, Yuri *see* **Grädel, Erich, (97m:03004)**
Hjorth, Greg Some applications of illfoundedness. (English summary) **97f:03069**

Rosen, Eric (*with* Weinstein, Scott) Preservation theorems in finite model theory. (English summary) (*see* **97m:03004**)
Rosický, Jiří *see* **Adámek, Jiří, 97b:03086**
Velickovic, Boban *see* **Friedman, Sy D., 97g:03051**
Weinstein, Scott *see* **Rosen, Eric, (97m:03004)**

03C80 Logic with extra quantifiers and operators [see also 03B45]

Alechina, Natasha On a decidable generalized quantifier logic corresponding to a decidable fragment of first-order logic. (English summary) **97m:03070**
Dawar, Anuj (*with* Hella, Lauri) The expressive power of finitely many generalized quantifiers. (English summary) **97b:03051**
Grumbach, Stéphane (*with* Tollu, Christophe) On the expressive power of counting. (English summary) **97d:03051**
Hella, Lauri *see* **Dawar, Anuj, 97b:03051**
Krynicki, Michał Relational quantifiers. **97a:03049**
Nešetřil, Jaroslav (*with* Väänänen, Jouko A.) Combinatorics and quantifiers. (English summary) **97m:03071**
Shen, En Shao Partition logics and coloured pebble games. (Chinese. English and Chinese summaries) **97k:03049**
Tollu, Christophe *see* **Grumbach, Stéphane, 97d:03051**
Väänänen, Jouko A. *see* **Nešetřil, Jaroslav, 97m:03071**

Items with secondary classifications in 03C80

Blackburn, Patrick (*with* Seligman, Jerry) Hybrid languages. (English summary) **97c:03053**
Hájek, Petr[1] (*with* Kohout, Ladislav) Fuzzy implications and generalized quantifiers. **97j:03042**
Kohout, Ladislav *see* **Hájek, Petr[1], 97j:03042**
Seligman, Jerry *see* **Blackburn, Patrick, 97c:03053**

03C85 Second- and higher-order model theory

Dawar, Anuj A restricted second order logic for finite structures. (English summary) (*see* **97m:03004**)
Lacoste, Thierry Finitistic proofs of 0-1 laws for fragments of second-order logic. (English summary) **97f:03055**
Schwentick, Thomas On winning Ehrenfeucht games and monadic NP. (English summary) **97c:03110**
Shen, En Shao *see* **Tian, Qi Jia; et al., 97e:03057**
Shen, Fu Xing *see* **Tian, Qi Jia; et al., 97e:03057**
Tian, Qi Jia (*with* Shen, En Shao; Shen, Fu Xing) Fraïssé's theorem on monadic partition logic. (Chinese. English and Chinese summaries) **97e:03057**

Items with secondary classifications in 03C85

Arnborg, Stefan (*with* Courcelle, Bruno; Proskurowski, Andrzej; Seese, Detlef) An algebraic theory of graph reduction. (English summary) **97i:68149**
Courcelle, Bruno *see* **Arnborg, Stefan; et al., 97i:68149**
Fagin, Ronald (*with* Stockmeyer, Larry J.; Vardi, Moshe Y.) On monadic NP vs monadic co-NP. (English summary) **97b:03049**
Montanari, Angelo (*with* Policriti, Alberto) Decidability results for metric and layered temporal logics. (English summary) **97e:03013**
Policriti, Alberto *see* **Montanari, Angelo, 97e:03013**
Proskurowski, Andrzej *see* **Arnborg, Stefan; et al., 97i:68149**
Seese, Detlef *see* **Arnborg, Stefan; et al., 97i:68149**
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Vardi, Moshe Y. *see* **Fagin, Ronald; et al., 97b:03049**

03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

Höhle, Ulrich MV-algebra valued filter theory. (English summary) **97i:03021**
Wehrung, Friedrich A compactness property of Dedekind σ-complete f-rings. (English summary) **97h:03065**

Items with secondary classifications in 03C90

Avellone, Alessandro (*with* Fiorentini, Camillo; Mantovani, Paolo; Miglioli, Pierangelo) On maximal intermediate predicate constructive logics. (English summary) **97j:03052**
Bukhvalov, A. V. (*with* Gutman, A. E.; Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Vector lattices and integral operators. (English summary) **97a:46002**
Dzierzgowski, Daniel Constants in Kripke models for intuitionistic logic. (English summary) **97c:03033**
Fiorentini, Camillo *see* **Avellone, Alessandro; et al., 97j:03052**
Ghilardi, Silvio (*with* Meloni, Giancarlo) Relational and partial variable sets and basic predicate logic. (English summary) **97j:03119**
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Iovino, José The Morley rank of a Banach space. (English summary) **97j:03072**
Korotkov, V. B. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Kukhtenko, A. I. ★ Аналитическая теория логико-динамических систем. (Russian. Russian summary) [Analytic theory of logical-dynamical systems] **97j:93001**
Kusraev, A. G. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Kutateladze, S. S. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Langholm, Tore How different is partial logic? (*see* **97k:03004**)
Makarov, B. M. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Mantovani, Paolo *see* **Avellone, Alessandro; et al., 97j:03052**
Meloni, Giancarlo *see* **Ghilardi, Silvio, 97j:03119**
Miglioli, Pierangelo *see* **Avellone, Alessandro; et al., 97j:03052**
Peppas, Pavlos (*with* Williams, Mary-Anne) Constructive modelings for theory change. (English summary) **97a:03039**
(Stepanov, V. D.) *see* **Bukhvalov, A. V.; et al., 97a:46002**
Titani, Satoko A weak set theory with globalization. (*see* **97c:03014**)
Williams, Mary-Anne *see* **Peppas, Pavlos, 97a:03039**

03C95 Abstract model theory

Items with secondary classifications in 03C95

Andréka, Hajnal (*with* Németi, István; Sain, Ildikó; Kurucz, Ágnes) General algebraic logic including algebraic model theory: an overview. (English summary) **97c:03144**
Kurucz, Ágnes *see* **Andréka, Hajnal; et al., 97c:03144**
Martin, Norman M. (*with* Pollard, Stephen) ★ Closure spaces and logic. (English summary) **97m:03022**
Németi, István *see* **Andréka, Hajnal; et al., 97c:03144**
Pollard, Stephen *see* **Martin, Norman M., 97m:03022**
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03C99 None of the above, but in this section

Danner, Norman *see* **Hammer, Eric M., 97i:03022**
Hammer, Eric M. (*with* Danner, Norman) Towards a model theory of diagrams. (English summary) **97i:03022**

Items with secondary classifications in 03C99

Veldman, Wim (*with* Waaldijk, Frank) Some elementary results in intuitionistic model theory. (English summary) **97m:03093**
Waaldijk, Frank *see* **Veldman, Wim, 97m:03093**

03Dxx Recursion theory

Items with secondary classifications in 03Dxx

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(Kreisel, Georg) *see* **Kreiseliana, 97m:01097**
(Odifreddi, Piergiorgio) *see* **Kreiseliana, 97m:01097**
(Slaman, Theodore A.) *see* **Computability, enumerability, unsolvability, 97a:03003**
(Wainer, Stanley S.) *see* **Computability, enumerability, unsolvability, 97a:03003**

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Computability, enumerability, unsolvability ★ Computability, enumerability, unsolvability. **97a:03003**
Kreiseliana ★ Kreiseliana. **97m:01097**

03D03 Thue and Post systems, etc.

Items with secondary classifications in 03D03

Harju, Tero (*with* Lipponen, Marjo; Mateescu, Alexandru) Flatwords and Post correspondence problem. (English summary) **97i:68110**
Kurth, Winfried One-rule semi-Thue systems with loops of length one, two or three. (English and French summaries) **97j:68069**
Lipponen, Marjo *see* **Harju, Tero; et al., 97i:68110**
Mateescu, Alexandru *see* **Harju, Tero; et al., 97i:68110**
Tan, Hong Yan *see* **Wu, Jin Zhao**
Wu, Jin Zhao (*with* Tan, Hong Yan) Two properties of the monoids presented by special Thue systems. (Chinese. English and Chinese summaries)

03D05 Automata and formal grammars in connection with logical questions [see also 68Qxx]

Arnold, André An initial semantics for the μ-calculus on trees and Rabin's complementation lemma. (English summary) **97b:03052**
Bedon, Nicolas Finite automata and ordinals. (English summary) **97d:03052**
Boudet, Alexandre (*with* Comon, Hubert) Diophantine equations, Presburger arithmetic and finite automata. (English summary) **97k:03050**
Comon, Hubert *see* **Boudet, Alexandre, 97k:03050**
Gunji, Yukio-Pegio (*with* Sadaoka, Hisato: Ito, Keisuke) Bootstrapping system defined by inconsistent relation between Boolean and non-Boolean algebra. (English summary) **97e:03058**
Ito, Keisuke *see* **Gunji, Yukio-Pegio; et al., 97e:03058**
Klarlund, Nils (*with* Kozen, Dexter) Rabin measures. (English summary) **97d:03053**
Kozen, Dexter *see* **Klarlund, Nils, 97d:03053**
Pin, Jean-Eric Logic, semigroups and automata on words. (English summary) **97d:03054**
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Shen, Yun Fu Quantifier hierarchies over the first-order definable tree languages. (English summary) **97j:03076**

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Arnold, André A topological property of rational ω-languages. (English summary) **97c:68082**
Bahamonde Rionda, Antonio *see* **Vela, Camino R., 97a:68069**
Birget, Jean-Camille The state complexity of $\overline{\Sigma^* L}$ and its connection with temporal logic. **97k:68097**
— Two-way automata and length-preserving homomorphisms. (English summary) **97d:68132**
Blanchet-Sadri, F. Some logical characterizations of the dot-depth hierarchy and applications. (English summary) **97e:68088**
Book, Ronald V. (*with* Mayordomo, Elvira) On the robustness of ALMOST-$\mathscr{R}$. (English summary) **97m:68106**
Bruyère, Véronique *see* **Point, Françoise, 97j:11065**
Caron, Anne-Cécile *see* **Dauchet, Max; et al., 97c:68079**

Comon, Hubert Sequentiality, second order monadic logic and tree automata. (English summary) **97e:68057**
Coquidé, Jean-Luc *see* **Dauchet, Max; et al., 97c:68079**
Courcelle, Bruno (*with* Engelfriet, Joost) A logical characterization of the sets of hypergraphs defined by hyperedge replacement grammars. (English summary) **97k:68130**
— The definition in monadic second-order logic of modular decompositions of ordered graphs. (English summary) (*see* **97g:68004**)
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03D60 Recursion theory on ordinals, admissible sets, etc.

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03D70 Inductive definability

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— ★ Определимость и вычислимость. (Russian. Russian summary) [Definability and computability] **97j:03089b**
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Vigna, Sebastiano On the relations between distributive computability and the BSS model. (English summary) **97g:68064**
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— Reductions between cardinal characteristics of the continuum. (English summary) **97b:03059**
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— (*with* Shelah, Saharon) Evasion and prediction. II. (English summary) **97d:03061**
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— (*with* Shelah, Saharon) Saturated filters at successors of singular, weak reflection and yet another weak club principle. (English summary) **97d:03062**

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— (*with* Yuasa, Yoshifumi) Cardinal invariants about shrinkability of unbounded sets. (English summary) **97j:03092**
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Takahashi, Makoto[1] On uncountable representability of cBa under $\neg$CH. (Japanese) (*see* **97c:03011**)
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Bukovský, Lev (*with* Kholshchevnikova, N. N.; Repický, Miroslav) Thin sets of harmonic analysis and infinite combinatorics. (English summary) **97b:43004**
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Jech, Thomas (*with* Shelah, Saharon) A complete Boolean algebra that has no proper atomless complete subalgebra. (English summary) **97j:03109**
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Komjáth, Péter (*with* Shelah, Saharon) On Taylor's problem. **97a:05087**
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Laver, Richard Braid group actions on left distributive structures, and well orderings in the braid groups. **97e:20061**
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Morgan, Charles James Glyn Morasses, square and forcing axioms. (English summary) **97j:03101**
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03E10 Ordinal and cardinal numbers [see also 04A10]

Jech, Thomas (*with* Shelah, Saharon) Possible PCF algebras. (English summary) **97g:03050**
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Džamonja, Mirna (*with* Shelah, Saharon) On squares, outside guessing of clubs and $I_{<f}[\lambda]$. (English summary) **97a:03054**
Fuchino, Sakaé (*with* Koppelberg, Sabine) On ν^+-saturated ordered fields and Boolean algebras. **97e:03055**
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03E15 Descriptive set theory [see also 04A15, 28A05, 54H05]

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Blass, Andreas R. Baire category for monotone sets. (English summary) **97k:03057**
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03F65 Other constructive mathematics [see also 26E40, 46S30, 47S30]

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Glaß, Thomas Understanding uniformity in Feferman's explicit mathematics. (English summary) **97c:03141**
Kaufmann, Susanne (*with* Kummer, Martin Walter) On a quantitative notion of uniformity. (English summary) **97m:03074**
Kirk, W. A. *see* **Böber, Tekamül, (97a:00029)**
Kummer, Martin Walter *see* **Kaufmann, Susanne, 97m:03074**
McBeth, Muhammad Ali ★ Combinatorial number theory. **97j:03082**
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03F99 None of the above, but in this section

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03Gxx Algebraic logic

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Warsaw ★ Algebraic methods in logic and in computer science. **97k:03003**

03G05 Boolean algebras [see also 06Exx]

Alsina, Claudi *see* **Trillas, Enric; et al., 97e:03078**
Amanzhaev, G. G. On the closure of the nonzero invariant Yablonskiĭ class by the variable identification operation. (Russian) **97e:03076**
Andrei, Ştefan The determinant of the Boolean formulae. (English summary) **97b:03081**
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Fuchino, Sakaé (*with* Koppelberg, Sabine; Shelah, Saharon) Partial orderings with the weak Freese-Nation property. (English summary) **97h:03085**
Jech, Thomas (*with* Shelah, Saharon) A complete Boolean algebra that has no proper atomless complete subalgebra. (English summary) **97j:03109**
Keremedis, K. Some equivalents of AC in algebra. (English summary) **97j:03110**
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Mączyński, Maciej *see* **Länger, Helmut, 97c:03145**
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Fei, Ben Chu (*with* Hong, Qing Hua) Simplification of polynomials over GF(3). (Chinese. English and Chinese summaries) **97h:11156**
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Gavrilov, G. P. (*with* Sapozhenko, A. A.) ★ Problems and exercises in discrete mathematics. **97h:00002**
Hanusek, Jerzy Decidability of finite Boolean algebras with a distinguished subset closed under some operations. (English summary) **97j:03023**
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Iturrioz, Luisa *see* **Monteiro, António Aniceto Ribeiro, (97i:06009)**
Kim, Kwangjo *see* **Park, Sung Mo; et al., 97k:94100**
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Levashenko, V. G. (*with* Shmerko, V. P.; Yanushkevich, S. N.) Solution of Boolean differential equations on systolic arrays. (Russian. English and Ukrainian summaries) **97f:68057**
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Monteiro, Luiz F. (*with* Abad, Manuel; Savini, S.; Sewald, J.) Free monadic Tarski algebras. (English summary) **97k:03071**
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03G10 Lattices and related structures [see also 06Bxx]

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— *see also* **Arieli, Ofer, 97c:03094**
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03G12 Quantum logic [see also 81P10]

Dalla Chiara, M. L. (*with* Giuntini, Roberto) Fuzzy quantum logics. (English summary) **97e:03079**
Dvurečenskij, Anatolij (*with* Pulmannová, Sylvia; Svozil, Karl) Partition logics, orthoalgebras and automata. (English summary) **97c:03146**
Giuntini, Roberto Quantum MV algebras. (English summary) **97g:03060**
— *see also* **Dalla Chiara, M. L., 97e:03079**
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Beltrametti, E. G. (*with* Mączyński, Maciej) On the range of non-classical probability. (English summary) **97c:81016**
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Dickson, W. Michael Logical foundations for modal interpretations of quantum mechanics. (English summary) (*see* **97d:00025**)
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Erné, Marcel Convergence structures induced by scales. (English summary) **97j:06010**
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Hansen, Kaj Børge ★ Logical physics. (English summary) **97m:81002**

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Länger, Helmut (*with* Mączyński, Maciej) On a characterization of probability measures on Boolean algebras and some orthomodular lattices. (English summary) **97c:03145**
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Schaller, M. (*with* Svozil, Karl) Automaton logic. (English summary) **97c:03099**
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03G15 Cylindric and polyadic algebras; relation algebras

Andréka, Hajnal (*with* Németi, István) Axiomatization of identity-free equations valid in relation algebras. (English summary) **97d:03079**
Cīrulis, Jānis Corrections to my paper: "An algebraization of first order logic with terms" [in *Algebraic logic (Budapest, 1988)*, 125–146, Colloq. Math. Soc. János Bolyai, 54, North-Holland, Amsterdam, 1991; MR 94g:03118]. (English, Russian and Latvian summaries) **97c:03147**
— Abstract algebras of finitary relations: several non-traditional axiomatizations. (English, Russian and Latvian summaries) **97e:03080**
Diskin, Zinovy When is a semantically defined logic algebraizable? (English and Latvian summaries) **97g:03061**
Ferenczi, M. On inducing homomorphisms between relation set algebras. **97a:03069**
Gyuris, Viktor A short proof of representability of fork algebras. (English summary) **97b:03082**
Hansen, Ben Finitizability questions for some reducts of cylindric algebras. (English summary) **97c:03148**
Hirsch, Robin Relation algebras of intervals. (English summary) **97d:03080**
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Németi, István *see* **Andréka, Hajnal, 97d:03079**
Olivier, Jean-Pierre (*with* Serrato, Dany) Initial objects, universal objects for squares, equivalences and congruences in relation semi-algebras and algebras. (English summary) **97b:03083**
— (*with* Serrato, Dany) MP-algebras with relative types. (English summary) **97j:03113**
Pigozzi, Don (*with* Salibra, Antonino) Polyadic algebras over nonclassical logics. (English summary) **97m:03095**
Rafter, John Relativizations of relation algebras by the diversity. (English summary) **97c:03150**
Sain, Ildikó On the problem of finitizing first order logic and its algebraic counterpart (a survey of results and methods). (English summary) **97c:03151**
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Berghammer, Rudolf *see* **Gritzner, Thomas F., 97b:68124**
Đorđević, Zoran D. On an embedding of a class of semigroups into relational algebras. (English summary) **97d:20086**
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Németi, István Decidable versions of first order logic and cylindric-relativized set algebras. (English summary) **97b:03018**
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Olivier, Jean-Pierre (*with* Serrato, Dany) Peirce allegories. Identities involving transitive elements and symmetrical ones. (English summary) **97m:18006**
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Zhang, Wenhui Number of models and satisfiability of sets of clauses. (English summary) **97d:68100**

03G20 Łukasiewicz and Post algebras [see also 06D25, 06D30]

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Hoo, C. S. The distributive law for MV-algebras. (English summary) **97k:03072**
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Monteiro, Luiz F. *see* **Monteiro, António Aniceto Ribeiro, (97i:06009)**
Mundici, Daniele Averaging the truth-value in Łukasiewicz logic. (English summary) **97h:03086**
Negri, Maurizio Three valued semantics and DMF-algebras. (Italian summary) **97k:03073**
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Finn, V. K. (*with* Grigoliya, R. Sh.) Nonsense logics and their algebraic properties. **97g:03030**
Grigoliya, R. Sh. *see* **Finn, V. K., 97g:03030**
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Höhle, Ulrich MV-algebra valued filter theory. (English summary) **97i:03021**
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— Construction des algèbres de Boole libres dans les algèbres de Łukasiewicz trivalentes libres. [Construction of free Boolean algebras in free three-valued Łukasiewicz algebras] (*see* **97i:06009**)
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Pagliani, Piero Information gaps as communication needs: a new semantic foundation for some non-classical logics. (English summary) **97k:03012**
Priestley, H. A. Natural dualities for varieties of n-valued Łukasiewicz algebras. (English summary) **97f:06031**
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03G25 Other algebras related to logic [see also 06F35]

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Buszkowski, Wojciech Representation theorems for implication structures. **97k:03074**
Deng, Fang An (*with* Li, Jin Long) W_d-fuzzy implication algebras. (Chinese. English and Chinese summaries)
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Figallo, Aldo V. (*with* Landini, Paolo) On generalized I-algebras and 4-valued modal algebras. (English summary) **97j:03116**
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Hendriks, Lex (*with* de Jongh, Dick) Finitely generated Magari algebras and arithmetic. (English summary) **97j:03117**
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— *see also* **Hong, Sung Min, 97e:03081**
Kawahara, Yasuo *see* **Furusawa, Hitoshi, (97d:00015)**
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03Hxx Nonstandard models [see also 03C62]

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Labyrinthe du continu ★ Le labyrinthe du continu. (French) [The labyrinth of the continuum] **97e:00006**
Nonstandard analysis ★ Nonstandard analysis. (French) **97c:00033**
Real numbers, generalizations of the reals, and theories of continua ★ Real numbers, generalizations of the reals, and theories of continua. **97a:00004**

Special Issue:
Nonstandard analysis ★ Nonstandard analysis. (French) **97c:00033**

03H10 Other applications of nonstandard models (economics, physics, etc.)

Items with secondary classifications in 03H10

Albeverio, Sergio (*with* Wu, Jiang Lun) Nonstandard flat integral representation of the free Euclidean field and a large deviation bound for the exponential interaction. **97e:81087**
van den Berg, I. P. (*with* Koudjeti, Fouad) From binomial expectations to the Black-Scholes formula: the main ideas. (English and French summaries) **97j:90007**
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Gudder, Stanley Hyperfinite quantum random walks. (English summary) **97g:81006**
Herrmann, Robert A. A hypercontinuous hypersmooth Schwarzschild line element transformation. (English summary) **97k:83015**
Holin, Hubert Some artefacts of integer-computed circles. (English summary) **97a:68163**
Hoskins, Roy Frank Nonstandard theory of generalized functions. **97c:46096**
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Zemanian, Armen H. Nonstandard electrical networks and the resurrection of Kirchhoff's laws. (English summary) **97k:94097**

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Gencer, Çiğdem (*with* Terziler, Mehmet) On a question of Phillips. (English summary) **97k:03080**
Terziler, Mehmet *see* **Gencer, Çiğdem, 97k:03080**

Items with secondary classifications in 03H15

Gencer, Çiğdem (*with* Terziler, Mehmet) On the additive group structure of nonstandard models of **Z**. (English and Turkish summaries) **97a:03047**
Kanovei, Vladimir On external Scott algebras in nonstandard models of Peano arithmetic. (English summary) **97f:03054**
Kotlarski, Henryk An addition to Rosser's theorem. (English summary) **97e:03073**
Terziler, Mehmet *see* **Gencer, Çiğdem, 97a:03047**

03H99 None of the above, but in this section

Items with secondary classifications in 03H99

Blay, Michel Du système de l'infini au statut des nombres incommensurables dans les *Élémens de la géométrie* de Fontenelle. [From the system of the infinite to the status of incommensurable numbers in Fontenelle's *Elements of geometry*] **97g:01011**

04–XX Set theory [see also 03Exx]

04–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 04–01

Kamke, Erich ★ Théorie des ensembles. (French) [Set theory] **97b:01028**
(v. d. Lahr-Degout, A. M.) *see* **Kamke, Erich, 97b:01028**

04–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 04–02

Hajnal, A. Infinite combinatorics. **97f:04005**
Jech, Thomas Singular cardinals and the pcf theory. **97d:03070**
Lowen, Robert ★ Fuzzy set theory. **97j:04006**

04–03 Historical (must also be assigned at least one classification number from Section 01)

Ferreirós Domínguez, José Traditional logic and the early history of sets, 1854–1908. **97f:04001**

Items with secondary classifications in 04–03

Baumgartner, James E. In memoriam: Paul Erdős (1913–1996).
(Erdős, Paul[1]) *see* **Baumgartner, James E.**
Grulović, Milan Z. The work of Professor Djuro Kurepa in the set theory and the number theory. **97i:01032**
Hammer, Eric M. (*with* Shin, Sun-Joo) Euler and the role of visualization in logic. **97f:03003**
(Hurewicz, Witold) *see* **Pol, Roman**
(Ivić, Aleksandar) *see* **Kurepa, Djuro R., 97m:01106**
Kamke, Erich ★ Théorie des ensembles. (French) [Set theory] **97b:01028**
Kurepa, Djuro R. ★ Selected papers of Đuro Kurepa. (French) **97m:01106**
— *see also* **Grulović, Milan Z., 97i:01032**
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(Mamuzić, Zlatko P.) *see* **Kurepa, Djuro R., 97m:01106**
(Mijajlović, Žarko) *see* **Kurepa, Djuro R., 97m:01106**
Pol, Roman Hurewicz's papers on descriptive set theory.
Shin, Sun-Joo *see* **Hammer, Eric M., 97f:03003**
(Todorčević, Stevo) *see* **Kurepa, Djuro R., 97m:01106**

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Collected Works:
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Erdős, Paul[1] *see* **Baumgartner, James E.**

04–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 04–06

(Bouchon-Meunier, Bernadette) *see* **Fuzzy logic and soft computing, 97e:04009**
(Yager, Ronald R.) *see* **Fuzzy logic and soft computing, 97e:04009**
(Zadeh, Lotfi A.) *see* **Fuzzy logic and soft computing, 97e:04009**
(Ziarko, Wojciech) *see* **Rough sets, 97g:04007**

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Banff, AB ★ Rough sets. **97g:04007**
Fuzzy logic and soft computing ★ Fuzzy logic and soft computing. **97e:04009**
Rough sets ★ Rough sets. **97g:04007**
Workshop:
Rough Sets and Knowledge Discovery ★ Rough sets. **97g:04007**

04A03 Set algebra

Balcerzak, Marek (*with* Wroński, Stanisław) On σ-ideals without maximal extensions. (English and Polish summaries) **97f:04002**
Wroński, Stanisław *see* **Balcerzak, Marek, 97f:04002**

Items with secondary classifications in 04A03

Czédli, Gábor Lattice generation of small equivalences of a countable set. (English summary) **97f:06016**

04A05 Relations, functions [see also 08A02]

Anisca, Răzvan *see* **Todor, Radu; et al.**
Bencze, Mihály *see* **Todor, Radu; et al.**
Berković, Ivana F. *see* **Mitrović, Žarko M., 97f:04003**
Mitrović, Žarko M. (*with* Berković, Ivana F.) The induced relations on a power set. (English summary) **97f:04003**
Novák, Vítězslav On representation of ternary structures. (English summary) **97d:04001**
Popovici, Florin *see* **Todor, Radu; et al.**
Todor, Radu (*with* Anisca, Răzvan; Popovici, Florin; Bencze, Mihály) A characterization of the commutativity of the associative algebraical operations.
Todorčević, Stevo A classification of transitive relations on ω_1. **97k:04001**
Vojtáš, Peter A lattice of binary relations with polarity. (English summary) **97h:04001**
Wang, Li Ping Construction of the transitive kernel of a binary relation. (Chinese. English and Chinese summaries)
Yang, Liu Ji Relation matrices of homomorphic relations. (Chinese. English and Chinese summaries)

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Chajda, Ivan (*with* Emanovský, Petr) Σ-Hamiltonian and Σ-regular algebraic structures. (English summary) **97h:08003**
Emanovský, Petr *see* **Chajda, Ivan, 97h:08003**
Finberg, David (*with* Mainetti, Matteo; Rota, Gian-Carlo) The logic of commuting equivalence relations. **97j:06011**
Guidon, Thomas (*with* Hassler, Urs; Nazarova, L. A.; Roiter, Andrei V.) Two reduction algorithms for dyadic sets. (English and French summaries) **97k:06010**
Hassler, Urs *see* **Guidon, Thomas; et al., 97k:06010**
Kechris, Alexander S. (*with* Louveau, Alain) The classification of hypersmooth Borel equivalence relations. **97e:03067**
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Nazarova, L. A. *see* **Guidon, Thomas; et al., 97k:06010**
Novák, Vítězslav Cyclically ordered sets as partial algebras. (English summary) **97g:08001**
Olivier, Jean-Pierre (*with* Serrato, Dany) Initial objects, universal objects for squares, equivalences and congruences in relation semi-algebras and algebras. (English summary) **97b:03083**
— (*with* Serrato, Dany) Peirce allegories. Identities involving transitive elements and symmetrical ones. (English summary) **97m:18006**
Pizzi, Claudio Weak vs. strong Boethius' thesis: a problem in the analysis of consequential implication. (English summary) **97i:03010**
Rigollet, Luc (*with* Thomassé, Stéphane) Relations infinies indécomposables critiques. (English and French summaries) [Critically indecomposable infinite relations] **97k:06008**
Roiter, Andrei V. *see* **Guidon, Thomas; et al., 97k:06010**
Rota, Gian-Carlo *see* **Finberg, David; et al., 97j:06011**
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Thomassé, Stéphane *see* **Rigollet, Luc, 97k:06008**

04A10 Ordinal and cardinal numbers; generalizations [see also 03E10]

Conway, John H. The surreals and the reals. (*see* **97a:00004**)
Ehrlich, Philip All numbers great and small. (*see* **97a:00004**)
Ferbus-Zanda, Marie C. (*with* Vauzeilles, Jacqueline) Ordinals. I. Basic notions. (English summary) **97f:04004**
Klaua, Dieter Rational and real ordinal numbers. (*see* **97a:00004**)
Vauzeilles, Jacqueline *see* **Ferbus-Zanda, Marie C., 97f:04004**

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Benci, Vieri Numbers and labelled sets. (Italian. English summary) **97a:03072**
Boyd, David W. (*with* Mauldin, R. Daniel) The order type of the set of Pisot numbers. (English summary) **97b:11125**
Duffus, Dwight (*with* Goddard, T.) Products of chains with monochromatic maximal chains and antichains. (English summary) **97g:06001**
(Ehrlich, Philip) *see* **Real numbers, generalizations of the reals, and theories of continua, 97a:00004**
Goddard, T. *see* **Duffus, Dwight, 97g:06001**
Hajnal, A. Infinite combinatorics. **97f:04005**
Mauldin, R. Daniel *see* **Boyd, David W., 97b:11125**
Monk, J. Donald ★ Cardinal invariants on Boolean algebras. (English summary) **97c:06018**
Nambiar, K. K. Ackermann functions and transfinite ordinals. (English summary) **97a:03051**
Salanskis, Jean-Michel Le destin du modèle de Cantor-Dedekind. [The fate of the Dedekind-Cantor model] **97i:03005**
Spasojević, Zoran Gaps in $(\mathcal{P}(\omega), \subset^*)$ and $(\omega^\omega, \leq^*)$. (English summary) **97b:03060**

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04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [see also 03E15, 26A21, 28A05, 54H05]

Ki, Haseo On the set of all continuous functions with uniformly convergent Fourier series. (English summary) **97a:04001**
— On the Denjoy rank, the Kechris-Woodin rank and the Zalcwasser rank. (English summary) **97i:04001**
Marciszewski, Witold On universal Borel and projective filters. (English summary) **97h:04002**
Solecki, Sławomir Analytic ideals. **97i:04002**

Items with secondary classifications in 04A15

Abud, Zara I. (*with* Miraglia, Francisco) A measure-theoretic Erdős-Rado theorem. **97d:04002**
Balcerzak, Marek (*with* Rosłanowski, Andrzej) Coinitial families of perfect sets. (English summary) **97g:28001**
— (*with* Peredko, Joanna; Pawlikowski, Janusz) On Fubini-type theorems. (English summary) **97b:28001**
— (*with* Wojdowski, Wojciech; Renfro, Dave L.) On unions of porous sets. (English summary) **97k:28001**
— On Borel sets modulo a σ-ideal. **97k:28002**
Choban, M. M. Descriptive set theory and topology. (*see* **97f:54001**)

Downey, Rodney G. (*with* Shore, Richard A.) There is no degree invariant half-jump. (English summary) **97m:03073**
(Duda, Roman) *see* **Marczewski, Edward, 97c:01052**
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(Hulanicki, Andrzej) *see* **Marczewski, Edward, 97c:01052**
(Hurewicz, Witold) *see* **Pol, Roman**
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Kechris, Alexander S. (*with* Louveau, Alain) The classification of hypersmooth Borel equivalence relations. **97e:03067**
Kholshchevnikova, N. N. Small cardinals in the theory of functions. (English summary) **97j:03100**
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Luzin, N. N. (*with* Lebesgue, Henri) ★ Leçons sur les ensembles analytiques et leurs applications [Lusin]. Sur les fonctions représentables analytiquement [Lebesgue]. (French) [Lessons on analytic sets and their applications [Luzin]. On analytically representable functions [Lebesgue]] **97m:01101b**
Lyons, Russell Seventy years of Rajchman measures. (English and French summaries) **97b:42019**
Marczewski, Edward ★ Collected mathematical papers. **97c:01052**
Matheron, Étienne Sigma-idéaux polaires et ensembles d'unicité dans les groupes abéliens localement compacts. (English and French summaries) [Polar sigma-ideals and sets of uniqueness in locally compact abelian groups] **97f:43009**
— On the complexity of H sets of the unit circle. **97g:43002**
Mauldin, R. Daniel Analytic non-Borel sets modulo null sets. (English summary) **97c:28003**
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Reardon, Patrick Ramsey, Lebesgue, and Marczewski sets and the Baire property. (English summary) **97j:28005**
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Scheepers, Marion The least cardinal for which the Baire category theorem fails. **97d:03063**
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(Sierpinski, W.) *see* **Luzin, N. N., 97m:01101b**
Šmídek, M. Measurability of some sets of Borel measurable functions on [0, 1]. (English summary) **97a:54038**
(Urbanik, Kazimierz) *see* **Marczewski, Edward, 97c:01052**
Wojdowski, Wojciech *see* **Balcerzak, Marek; et al., 97k:28001**
Živaljević, Boško Hyperfinite transversal theory. II. (English summary) **97a:03073**

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Collected Works:
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04A20 Combinatorial set theory [see also 03E05, 05A05]; filters

Abud, Zara I. (*with* Miraglia, Francisco) A measure-theoretic Erdős-Rado theorem. **97d:04002**
Ciesielski, Krzysztof[2] Sum and difference free partitions of vector spaces. **97i:04003**
Erdős, Paul[1] On some problems in combinatorial set theory. (English summary) **97g:04001**
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— (*with* Zhang, Yanchun; Lu, Jie) Properties of lattice-limit of a sequence on $\times$-lattice. (English summary) **97m:06004**
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Zhang, Qiang[2] (*with* Xu, Yang) Lebesgue decompositions of signed fuzzy measures. (Chinese. English and Chinese summaries)
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Zhang, Zhi *see* **Ren, Huai Ting; et al.**
Zhang, Zi Fang (*with* Huang, Zheng Liang; Yu, Chao Jiang) Fuzzy matrix games. (Chinese. English and Chinese summaries)
Zhao, Bin[1] Limits in the category of topological molecular lattices.
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— (*with* Yue, Chao Yuan; Chen, Ting[1]) A study on social choice under fuzzy preferences. (Chinese. English and Chinese summaries)
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— (*with* Zhang, Xing Fang) ST_1, ST_2 and strongly Hausdorff separabilities and λ-cut topologies. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Xing Fang** *and* **Bai, Yong Cheng**
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— L-fuzzy SRN-accumulation points. (Chinese. English and Chinese summaries)
— On the finite union preserving property of the derived operator in L-fuzzy topological spaces. (English summary)
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Zhu, Moxi Design and application fuzzy controller in multivariable coupled system. (English summary)
— Design and application of fuzzy PID controller. (English summary)
Zhu, Yi-quan (*with* Pei, Li Wen) A class of congruence relations and the normality of fuzzy lattices. (English summary) **97e:06011**
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Ziarko, Wojciech (*with* Shan, Ning) A method for computing all maximally general rules in attribute-value systems. (English summary) **97g:68197**
Zlatoš, Pavol Fuzzifications of concrete categories and homomorphy degrees of mappings between universal algebras. (English summary) **97d:18002**
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Zou, Kai Qi *see* **Ge, Cai Xia; et al.**, **97a:65015**

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Applications of fuzzy logic ★ Applications of fuzzy logic. **97h:03052**
Bibliography:
  Fuzzy sets and systems *see* **Dubois, Didier; et al.**
  Zadeh, Lotfi A. *see* **Zadeh, Lotfi A.**, **97i:01055**
Biography:
  Zadeh, Lotfi A. *see* **Zadeh, Lotfi A.**, **97i:01055**
Collected Works:
  Zadeh, Lotfi A. *see* **Zadeh, Lotfi A.**, **97i:01055**
Conference:
  Fuzzy Logic and Fuzzy Technology ★ {1995 Spanish Conference on Fuzzy Logic and Fuzzy Technology}. **97k:00014**
Congress:
  Fuzzy Logic and its Applications to Engineering, Information Sciences, and Intelligent Systems ★ Fuzzy logic and its applications to engineering, information sciences, and intelligent systems. **97g:00021**
Foundations and applications of possibility theory ★ Foundations and applications of possibility theory. **97g:03032**
Fuzzy logic and its applications to engineering, information sciences, and intelligent systems ★ Fuzzy logic and its applications to engineering, information sciences, and intelligent systems. **97g:00021**
Ghent ★ Foundations and applications of possibility theory. **97g:03032**
Murcia ★ {1995 Spanish Conference on Fuzzy Logic and Fuzzy Technology}. **97k:00014**
Workshop:
  Foundations and Applications of Possibility Theory ★ Foundations and applications of possibility theory. **97g:03032**

04A99 Miscellaneous topics

Items with secondary classifications in 04A99

Bonaly, A. *see* **Bounias, M.**
Bounias, M. (*with* Bonaly, A.) Timeless space is provided by the empty set. (English summary)

05–XX Combinatorics {For finite fields, see 11Txx.}

Items with secondary classifications in 05–XX

Lovász, László (*with* Pyber, László; Welsh, Dominic J. A.; Ziegler, Günter M.) Combinatorics in pure mathematics. **97f:00003**
Pyber, László *see* **Lovász, László; et al., 97f:00003**
Welsh, Dominic J. A. *see* **Lovász, László; et al., 97f:00003**
Ziegler, Günter M. *see* **Lovász, László; et al., 97f:00003**

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Colbourn, Charles J.) *see* **Handbook: Combinatorial designs, 97a:05001**
(Dinitz, Jeffrey H.) *see* **Handbook: Combinatorial designs, 97a:05001**

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Handbook:
Combinatorial designs ★ The CRC handbook of combinatorial designs. **97a:05001**

05–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aigner, Martin ★ Combinatorial theory.
Balakrishnan, Venkataraman ★ Introductory discrete mathematics. (English summary)
Chartrand, Gary (*with* Lesniak, Linda) ★ Graphs & digraphs. (English summary) **97d:05001**
Diestel, Reinhard ★ Graphentheorie. (German) [Graph theory]
— ★ Graph theory. (English summary)
Emelichev, V. A. *see* **Mel'nikov, O. I.; et al., 97a:05002**
Erickson, Martin J. ★ Introduction to combinatorics. (English summary)
(Knuth, Donald E.) *see* **Petkovšek, Marko; et al., 97j:05001**
(Kolchin, V. F.) *see* **Sachkov, Vladimir N., 97a:05003**
(Korneenko, N.) *see* **Mel'nikov, O. I.; et al., 97a:05002**
Lesniak, Linda *see* **Chartrand, Gary, 97d:05001**
Mel'nikov, O. I. (*with* Tyshkevich, Regina; Emelichev, V. A.; Sarvanov, Vladimir) ★ Lectures on graph theory. (English summary) **97a:05002**
Nägler, Günter (*with* Stopp, Friedmar) ★ Graphen und Anwendungen. (German) [Graphs and applications]
Osipova, V. A. ★ Introduction to discrete mathematics.
Petkovšek, Marko (*with* Wilf, Herbert S.; Zeilberger, Doron) ★ $A = B$. (English summary) **97j:05001**
Sachkov, Vladimir N. ★ Combinatorial methods in discrete mathematics. (English summary) **97a:05003**
Sarvanov, Vladimir *see* **Mel'nikov, O. I.; et al., 97a:05002**
Stopp, Friedmar *see* **Nägler, Günter**
Tyshkevich, Regina *see* **Mel'nikov, O. I.; et al., 97a:05002**
Wilf, Herbert S. *see* **Petkovšek, Marko; et al., 97j:05001**
Zeilberger, Doron *see* **Petkovšek, Marko; et al., 97j:05001**

Items with secondary classifications in 05–01

Gavrilov, G. P. (*with* Sapozhenko, A. A.) ★ Problems and exercises in discrete mathematics. **97h:00002**
Graham, Ronald L. (*with* Knuth, Donald E.; Patashnik, Oren) ★ Concrete mathematics. (English summary) **97d:68003**
Knuth, Donald E. *see* **Graham, Ronald L.; et al., 97d:68003**
Lozansky, Edward (*with* Rousseau, Cecil C.) ★ Winning solutions. **97j:00003**
Nabebin, A. A. ★ Логика и пролог в дискретной математике. (Russian. Russian summary) [Logic and Prolog in discrete mathematics] **97g:68001**
Patashnik, Oren *see* **Graham, Ronald L.; et al., 97d:68003**
Rousseau, Cecil C. *see* **Lozansky, Edward, 97j:00003**
Sapozhenko, A. A. *see* **Gavrilov, G. P., 97h:00002**

05–02 Research exposition (monographs, survey articles)

Alon, Noga Tools from higher algebra. **97a:05004**
Baranov, V. I. *see* **Stechkin, B. S., 97a:05006**
Graver, Jack E. (*with* Watkins, Mark E.) Locally finite, planar, edge-transitive graphs. (English summary) **97i:05001**
Mahadev, N. V. R. (*with* Peled, Uri N.) ★ Threshold graphs and related topics. **97h:05001**
Peled, Uri N. *see* **Mahadev, N. V. R., 97h:05001**
Prisner, Erich ★ Graph dynamics. (English summary) **97a:05005**
Rota, Gian-Carlo Report on the present state of combinatorics. **97k:05001**
Stechkin, B. S. (*with* Baranov, V. I.) ★ Extremal combinatorial problems and their applications. (English summary) **97a:05006**
(Wallis, Walter D.) *see* **Computational and constructive design theory, 97j:05002**
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Items with secondary classifications in 05–02

Erdős, Paul[1] Some of my favourite problems in number theory, combinatorics, and geometry. **97e:11003**
— On some of my favourite theorems. (English summary) **97g:00002**
Furino, Steven (*with* Miao, Ying; Yin, Jian Xing) ★ Frames and resolvable designs. (English summary) **97d:05030**
Guy, Richard K. Combinatorial games. **97j:90099**
Hevia, Héctor Graphs with a given group of automorphisms. (Spanish. Spanish summary) **97a:05103**
Lovász, László (*with* Shmoys, David B.; Tardos, Éva) Combinatorics in computer science. **97g:68078**
Miao, Ying *see* **Furino, Steven; et al., 97d:05030**
Shmoys, David B. *see* **Lovász, László; et al., 97g:68078**
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Yin, Jian Xing *see* **Furino, Steven; et al., 97d:05030**

05–03 Historical (must also be assigned at least one classification number from Section 01)

Berge, Claude The history of the perfect graphs. **97a:05007**

Items with secondary classifications in 05–03

Anderson, Ian Cyclic designs in the 1850s; the work of Rev. R. R. Anstice. (English summary) **97a:01028**
(Anstice, R. R.) *see* **Anderson, Ian, 97a:01028**
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Ruciński, Andrzej *see* **Karoński, Michał, 97m:05233**
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Soifer, Alexander The Baudet-Schur conjecture on monochromatic arithmetic progressions: an historical investigation. **97k:05201**

05–04 Explicit machine computation and programs (not the theory of computation or programming)

Prins, C. Comparaison d'algorithmes de plus courts chemins sur des graphes routiers de grande taille. (English and French summaries) [Comparison of shortest-path algorithms for large-scale road networks]

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Marcu, Dănuț Finding the connected components of a graph. (English and Romanian summaries)

05–06 Proceedings, conferences, collections, etc.

(Alavi, Yousef) *see* **Graph theory, combinatorics, and algorithms, 97c:05001**
(Anderson, Ian) *see* **Conference: Combinatorial, 97k:05002**
(Bannai, Eiichi) *see* **Progress in algebraic combinatorics, 97d:05003**
(Barlotti, Adriano) *see* **Combinatorics, 97b:05001**
(Bart, Harm) *see* **Proceedings: Conference of the International Linear Algebra Society, 97a:05009**
(Bonin, Joseph E.) *see* **Matroid theory, 97d:05002**
(Chartrand, Gary) *see* **Surveys in graph theory, 97d:05004** *and* **97d:05005**
(Delest, Marie-Pierre) *see* **Proceedings: Conference on Formal Power Series and Algebraic Combinatorics, 97a:05010**
(Deuber, Walter A.) *see* **Trends in discrete mathematics**
(Elsner, Ludwig F.) *see* **Proceedings: Conference of the International Linear Algebra Society, 97a:05009**
(Fouquet, Jean-Luc) *see* **Graphs and combinatorics, 97i:05002**
(Gionfriddo, M.) *see* **Combinatorics, 97b:05001**
(Hamada, Noboru) *see* **Special Issue: Orthogonal arrays and affine designs, 97i:05003** *and* **97i:05004**
(Harant, Jochen) *see* **Cycles and colourings '94, 97b:05002**
(Hirschfeld, J. W. P.) *see* **Conference: Combinatorial, 97k:05002**
(Horňák, Mirko) *see* **Cycles and colourings '94, 97b:05002**
(Jacobson, Michael S.) *see* **Surveys in graph theory, 97d:05004** *and* **97d:05005**
(Jendrol', Stanislav) *see* **Cycles and colourings '94, 97b:05002**
(Key, J. D.) *see* **Special Issue: Orthogonal arrays and affine designs, 97i:05003** *and* **97i:05004**
(Mavron, V. C.) *see* **Special Issue: Orthogonal arrays and affine designs, 97i:05003** *and* **97i:05004**
(Munemasa, A.) *see* **Progress in algebraic combinatorics, 97d:05003**
(Oxley, James G.) *see* **Matroid theory, 97d:05002**
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(Prömel, Hans Jürgen) *see* **Trends in discrete mathematics**
(Quimpo, N. F.) *see* **Graph theory and combinatorics, 97a:05008**
(Ran, André C. M.) *see* **Proceedings: Conference of the International Linear Algebra Society, 97a:05009**
(Rosenstiehl, P.) *see* **Graphs and combinatorics, 97i:05002**
(Ruiz, M.-J. P.) *see* **Graph theory and combinatorics, 97a:05008**
(Rycerz, A.) *see* **Conference: Graph Theory, 97h:05002**
(Schwenk, Allen J.) *see* **Graph theory, combinatorics, and algorithms, 97c:05001**
(Servatius, Brigitte) *see* **Matroid theory, 97d:05002**
(Sheehan, J.) *see* **Conference: Combinatorial, 97k:05002**
(Simion, Rodica) *see* **Proceedings: Conference on Formal Power Series and Algebraic Combinatorics, 97f:05001**
(Singhi, N. M.) *see* **Special Issue: Orthogonal arrays and affine designs, 97i:05003** *and* **97i:05004**
(Strehl, Volker) *see* **Symbolic computation in combinatorics Δ_1, 97i:05005**
(Tallini, Giuseppe) *see* **Combinatorics, 97b:05001**
(Tonchev, Vladimir D.) *see* **Special Issue: Orthogonal arrays and affine designs, 97i:05003** *and* **97i:05004**

(Vijayakumar, G. R.) *see* **Special Issue: Orthogonal arrays and affine designs, 97f:05003** *and* **97f:05004**
(Voigt, B.) *see* **Trends in discrete mathematics**
(Walther, Hansjoachim) *see* **Cycles and colourings '94, 97b:05002**
(Whitehead, C. A.) *see* **Conference: Combinatorial, 97k:05002**
(Wojda, A. Paweł) *see* **Conference: Graph Theory, 97h:05002**
(Woodall, Douglas R.) *see* **Conference: Combinatorial, 97k:05002**
(Woźniak, Mariusz) *see* **Conference: Graph Theory, 97h:05002**

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Baton Rouge, LA ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05003**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05004**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05005**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05006**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05007**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05008**
Combinatorics ★ Combinatorics. **97b:05001**
Conference:
Combinatorial ★ Twelfth British Combinatorial Conference. **97e:05001**
— ★ Twelfth British Combinatorial Conference. **97e:05002**
— ★ Twelfth British Combinatorial Conference. **97e:05003**
— ★ 15th British Combinatorial Conference. **97k:05002**
Combinatorics 92 ★ Combinatorics. **97b:05001**
Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05003**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05004**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05005**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05006**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05007**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05008**
Formal Power Series and Algebraic Combinatorics ★ Proceedings of the 5th Conference on Formal Power Series and Algebraic Combinatorics. **97a:05010**
— ★ Proceedings of the 6th Conference on Formal Power Series and Algebraic Combinatorics. **97f:05001**
Graph Theory ★ The Second Krakow Conference on Graph Theory. **97h:05002**
Graph Theory and Combinatorics ★ Graph theory and combinatorics. **97a:05008**
International Linear Algebra Society ★ Proceedings of the Fourth Conference of the International Linear Algebra Society. **97a:05009**
Matroid Theory ★ Matroid theory. **97d:05002**
Theory and Applications of Graphs ★ Graph theory, combinatorics, and algorithms. Vol. 1, 2. **97c:05001**
Contemporary Mathematics ★ Matroid theory. **97d:05002**
Cycles and colourings '94 ★ Cycles and colourings '94. **97b:05002**
Florence ★ Proceedings of the 5th Conference on Formal Power Series and Algebraic Combinatorics. **97a:05010**
Fukuoka ★ Progress in algebraic combinatorics. **97d:05003**
Graph theory and combinatorics ★ Graph theory and combinatorics. **97a:05008**
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Kalamazoo, MI ★ Graph theory, combinatorics, and algorithms. Vol. 1, 2. **97c:05001**
Manila ★ Graph theory and combinatorics. **97a:05008**
Marseille ★ Graphs and combinatorics. **97i:05002**
Matroid theory ★ Matroid theory. **97d:05002**
New Brunswick, NJ ★ Proceedings of the 6th Conference on Formal Power Series and Algebraic Combinatorics. **97f:05001**
Norwich ★ Twelfth British Combinatorial Conference. **97e:05001**
— ★ Twelfth British Combinatorial Conference. **97e:05002**
— ★ Twelfth British Combinatorial Conference. **97e:05003**
Proceedings:
Conference of the International Linear Algebra Society ★ Proceedings of the Fourth Conference of the International Linear Algebra Society. **97a:05009**
Conference on Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05003**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05004**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05005**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05006**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05007**
— ★ Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing. **97h:05008**
Proceedings: (*cont'd.*)
Conference on Formal Power Series and Algebraic Combinatorics ★ Proceedings of the 5th Conference on Formal Power Series and Algebraic Combinatorics. **97a:05010**
— ★ Proceedings of the 6th Conference on Formal Power Series and Algebraic Combinatorics. **97f:05001**
Progress in algebraic combinatorics ★ Progress in algebraic combinatorics. **97d:05003**
Rotterdam ★ Proceedings of the Fourth Conference of the International Linear Algebra Society. **97a:05009**
San Francisco, CA ★ Surveys in graph theory. **97d:05004**
— ★ Surveys in graph theory. **97d:05005**
Seattle, WA ★ Matroid theory. **97d:05002**
Session:
Surveys in Graph Theory ★ Surveys in graph theory. **97d:05004**
— ★ Surveys in graph theory. **97d:05005**
Special Issue:
Orthogonal arrays and affine designs ★ Special issue on orthogonal arrays and affine designs. Part I. **97i:05003**
— ★ Special issue on orthogonal arrays and affine designs. Part II. **97i:05004**
Symbolic computation in combinatorics Δ_1 ★ Symbolic computation in combinatorics Δ_1. **97i:05005**
Stará Lesná ★ Cycles and colourings '94. **97b:05002**
Stirling ★ 15th British Combinatorial Conference. **97k:05002**
Surveys in graph theory ★ Surveys in graph theory. **97d:05004**
— ★ Surveys in graph theory. **97d:05005**
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Algebraic Combinatorics ★ Progress in algebraic combinatorics. **97d:05003**
Graphs and Combinatorics ★ Graphs and combinatorics. **97i:05002**
Trends in discrete mathematics ★ Trends in discrete mathematics.
Workshop:
Cycles and Colourings ★ Cycles and colourings '94. **97b:05002**
Symbolic Computation in Combinatorics ★ Symbolic computation in combinatorics Δ_1. **97i:05005**
Zgorzelisko ★ The Second Krakow Conference on Graph Theory. **97h:05002**

Items with secondary classifications in 05–06

(Cai, Jin-Yi) *see* **Computing and combinatorics, 97m:68001**
(Deza, Michel-Marie) *see* **Combinatorics and computer science, 97k:00013**
(Du, Ding-Zhu) *see* **Computing and combinatorics, 97k:68005**
(Erdős, Paul[1]) *see* **Selected papers in honour of Paul Erdős on the occasion of his 80th birthday, 97b:00030; Mathematics of Paul Erdős, 97f:00032** *and* **97f:00033**
(Euler, Reinhardt) *see* **Combinatorics and computer science, 97k:00013**
(Graham, Ronald L.) *see* **Mathematics of Paul Erdős, 97f:00032** *and* **97f:00033**
(Hajnal, A.) *see* **Selected papers in honour of Paul Erdős on the occasion of his 80th birthday, 97b:00030**
(Katona, Gyula O. H.) *see* **Selected papers in honour of Paul Erdős on the occasion of his 80th birthday, 97b:00030**
(Korshunov, Aleksei D.) *see* **Discrete analysis and operations research, 97c:90001** *and* **Discrete analysis, 97k:00015**
(Lawler, Eugene L.) *see* **Models and algorithms for planning and scheduling problems, 97f:00019**
(Li, Ming[1]) *see* **Computing and combinatorics, 97k:68005**
(Manoussakis, Yannis G.) *see* **Combinatorics and computer science, 97k:00013**
(Möhring, Rolf H.) *see* **Models and algorithms for planning and scheduling problems, 97f:00019**
(Nagl, Manfred) *see* **Graph-theoretic concepts in computer science, 97b:68006**
(Nešetřil, Jaroslav) *see* **Mathematics of Paul Erdős, 97f:00032** *and* **97f:00033**
(Nowakowski, Richard J.) *see* **Games of no chance, 97h:90004**
(Radermacher, Franz Josef) *see* **Models and algorithms for planning and scheduling problems, 97f:00019**
(Sali, Attila) *see* **Selected papers in honour of Paul Erdős on the occasion of his 80th birthday, 97b:00030**
(Speranza, Maria Grazia) *see* **Models and algorithms for planning and scheduling problems, 97f:00019**
(Tonchev, Vladimir D.) *see* **Workshop: Designs, Codes and Geometries, 97f:00030a** *and* **Codes, designs and geometry, 97f:00030b**
(Wong, Chak Kuen) *see* **Computing and combinatorics, 97m:68001**

Items listed otherwise than by author

Aachen ★ Graph-theoretic concepts in computer science. **97b:68006**
Berkeley, CA ★ Games of no chance. **97h:90004**
Birthday:
Erdős, Paul[1] ★ Selected papers in honour of Paul Erdős on the occasion of his 80th birthday. **97b:00030**
Brest ★ Combinatorics and computer science. **97k:00013**
Codes, designs and geometry ★ Codes, designs and geometry. **97f:00030b**
Combinatorics and computer science ★ Combinatorics and computer science. **97k:00013**
Computing and combinatorics ★ Computing and combinatorics. **97k:68005**
— ★ Computing and combinatorics. **97m:68001**
Conference:
Combinatorics and Computer Science ★ Combinatorics and computer science. **97k:00013**
— ★ Combinatorics and computer science. **97k:00013**
Computing and Combinatorics ★ Computing and combinatorics. **97k:68005**
— ★ Computing and combinatorics. **97m:68001**
Erdős, Paul[1] ★ Selected papers in honour of Paul Erdős on the occasion of his 80th birthday. **97b:00030**
Lotharingian Seminar for Combinatorics ★ 33. Tagung des Lotharingischen Kombinatorikseminars. [33rd Conference of the Lotharingian Seminar for Combinatorics]

Conference: (*cont'd.*)
97d:00017
Discrete analysis ★ Дискретный анализ. (Russian) [Discrete analysis] **97k:00015**
Discrete analysis and operations research ★ Discrete analysis and operations research. **97c:90001**
Freiberg ★ 33. Tagung des Lotharingischen Kombinatorikseminars. [33rd Conference of the Lotharingian Seminar for Combinatorics] **97d:00017**
Games of no chance ★ Games of no chance. **97h:90004**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **97b:68006**
Hong Kong ★ Computing and combinatorics. **97m:68001**
Houghton, MI ★ Second Upper Michigan Combinatorics Workshop on Designs, Codes and Geometries. **97f:00030a**
— ★ Codes, designs and geometry. **97f:00030b**
Keszthely, 1993 ★ Selected papers in honour of Paul Erdős on the occasion of his 80th birthday. **97b:00030**
Lecture Notes in Computer Science ★ Graph-theoretic concepts in computer science. **97b:68006**
— ★ Computing and combinatorics. **97k:68005**
— ★ Combinatorics and computer science. **97k:00013**
— ★ Computing and combinatorics. **97m:68001**
Loveno di Menaggio ★ Models and algorithms for planning and scheduling problems. **97f:00019**
Mathematics of Paul Erdős ★ The mathematics of Paul Erdős. I. **97f:00032**
— ★ The mathematics of Paul Erdős. II. **97f:00033**
Models and algorithms for planning and scheduling problems ★ Models and algorithms for planning and scheduling problems. **97f:00019**
New Orleans, LA ★ Proceedings of the Eighth Annual ACM-SIAM Symposium on Discrete Algorithms. **97k:68011**
Obituary:
Erdős, Paul[1] ★ The mathematics of Paul Erdős. I. **97f:00032**
— ★ The mathematics of Paul Erdős. II. **97f:00033**
Lawler, Eugene L. ★ Models and algorithms for planning and scheduling problems. **97f:00019**
Proceedings:
Symposium on Discrete Algorithms ★ Proceedings of the Eighth Annual ACM-SIAM Symposium on Discrete Algorithms. **97k:68011**
Selected papers in honour of Paul Erdős on the occasion of his 80th birthday ★ Selected papers in honour of Paul Erdős on the occasion of his 80th birthday. **97b:00030**
Seminar:
Combinatorics ★ 33. Tagung des Lotharingischen Kombinatorikseminars. [33rd Conference of the Lotharingian Seminar for Combinatorics] **97d:00017**
Symposium:
Discrete Algorithms ★ Proceedings of the Eighth Annual ACM-SIAM Symposium on Discrete Algorithms. **97k:68011**
Workshop:
Combinatorial Games ★ Games of no chance. **97h:90004**
Designs, Codes and Geometries ★ Second Upper Michigan Combinatorics Workshop on Designs, Codes and Geometries. **97f:00030a**
— ★ Codes, designs and geometry. **97f:00030b**
Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **97b:68006**
Models and Algorithms for Planning and Scheduling Problems ★ Models and algorithms for planning and scheduling problems. **97f:00019**
Xi'an ★ Computing and combinatorics. **97k:68005**

05Axx Classical combinatorial problems

Items with secondary classifications in 05Axx

Hofri, Micha ★ Analysis of algorithms. **97e:68050**

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Abrham, Jaromir (*with* Turgeon, Jean M.) Equivalence classes of parametric additive permutations of cardinality eight. **97k:05003**
Aldershof, Brian (*with* Carducci, Olivia M.) Stable matchings with couples. (English summary) **97a:05011**
Atanassov, Krassimir Todorov A combinatorial problem.
Banaszczyk, Wojciech *see* **Sevast'yanov, S. V., 97m:05004**
Bhat, Girish S. (*with* Savage, Carla D.) Balanced Gray codes. (English summary) **97k:05004**
Carducci, Olivia M. *see* **Aldershof, Brian, 97a:05011**
Clarke, Robert John[1] (*with* Steingrímsson, Einar; Zeng, Jiang) New Euler-Mahonian permutation statistics. **97d:05006**
Dulucq, S. (*with* Guibert, O.) Permutations de Baxter. (English summary) [Baxter permutations] **97e:05004**
Guibert, O. *see* **Dulucq, S., 97e:05004**
Harborth, Heiko (*with* Maasberg, Silke) Rado numbers for homogeneous second order linear recurrences—degree of partition regularity. **97f:05002**
Heinrich, Katherine (*with* Kobayashi, Midori; Nakamura, Gisaku) A solution of Dudeney's round table problem for $p^r q^l + 1$. (English summary) **97m:05001**
Hu, Xiao Dong (*with* Hwang, Frank K.) A competitive algorithm for the counterfeit coin problem. (English summary) **97h:05009**
Hurlbert, Glenn (*with* Isaak, Garth T.) Equivalence class universal cycles for permutations. (English summary) **97e:05005**
Hwang, Frank K. *see* **Hu, Xiao Dong, 97h:05009**
Isaak, Garth T. *see* **Hurlbert, Glenn, 97e:05005**
Ishigami, Yoshiyasu An extremal problem of d permutations containing every permutation of every t elements. (English summary) **97e:05006**
Jiang, Maosen On selecting k balls from an n-line or n-circle without t-separations. (English summary) **97c:05002**
Kedlaya, Kiran S. Urn sampling and a majorization inequality. (English summary) **97m:05002**
Knopfmacher, Arnold (*with* Warlimont, Richard) Covers of finite sets with distinct block sizes. (English summary) **97g:05001**
Kobayashi, Midori *see* **Heinrich, Katherine; et al., 97m:05001**
Kovalenko, I. N. On an upper bound for the number of complete mappings. (Russian. English and Ukrainian summaries) **97g:05002**
Maasberg, Silke *see* **Harborth, Heiko, 97f:05002**
Mendelsohn, N. S. Cycle lengths in sequences of permutations. **97a:05012**
Merlini, Donatella *see* **Richmond, Lawrence Bruce, 97k:05005**
Muchnik, An. A. On a class of polynomial systems of equations following from the formula for total probability and possibilities for eliminating search in solving them. (English summary) (*see* **97f:03004**)
Nakamura, Gisaku *see* **Heinrich, Katherine; et al., 97m:05001**
Noonan, John (*with* Zeilberger, Doron) The enumeration of permutations with a prescribed number of "forbidden" patterns. (English summary) **97j:05003**
Panayotopoulos, A. (*with* Sapounakis, A.; Tsikouras, P.) The matching property of nested sets. (English summary) **97m:05003**
Read, Ronald C. (*with* Yen, Lily) A note on the Stockhausen problem. (English summary) **97e:05007**
Richmond, Lawrence Bruce (*with* Merlini, Donatella) Stirling numbers for complex arguments. (English summary) **97k:05005**
Roelants van Baronaigien, Dominique Generation of parity restricted subsets. (English summary) **97i:05006**
Ruskey, Frank (*with* Savage, Carla D.) A Gray code for combinations of a multiset. (English summary) **97k:05006**
Sapounakis, A. *see* **Panayotopoulos, A.; et al., 97m:05003**
Savage, Carla D. *see* **Wang, Terry Min Yih, 97g:05004**; **Bhat, Girish S., 97k:05004** *and* **Ruskey, Frank, 97k:05006**
Schneider, Rudolf On the chairman assignment problem. (English summary) **97e:05008**
Sevast'yanov, S. V. (*with* Banaszczyk, Wojciech) To the Steinitz lemma in coordinate form. (English summary) **97m:05004**
Stankova, Zvezdelina Classification of forbidden subsequences of length 4. (English summary) **97g:05003**
Steingrímsson, Einar *see* **Clarke, Robert John**[1]**; et al., 97d:05006**
Tsikouras, P. *see* **Panayotopoulos, A.; et al., 97m:05003**
Turgeon, Jean M. *see* **Abrham, Jaromir, 97k:05003**
Vaughan, Theresa P. A permutation associated with GF(2^n). (English summary) **97f:05003**
Wang, Jian Zhong[1] Concordant permutations of the double sequence $1, 1, 2, 2, \cdots$ of natural numbers. (Chinese. English and Chinese summaries) **97a:05013**
Wang, Terry Min Yih (*with* Savage, Carla D.) A Gray code for necklaces of fixed density. (English summary) **97g:05004**
Warlimont, Richard *see* **Knopfmacher, Arnold, 97g:05001**
Warren, Richard H. Disks on a chessboard. **97a:05014**
West, Julian Generating trees and the Catalan and Schröder numbers. (English summary) **97h:05010**
Yen, Lily *see* **Read, Ronald C., 97e:05007**
Zeilberger, Doron *see* **Noonan, John, 97j:05003**
Zeng, Jiang *see* **Clarke, Robert John**[1]**; et al., 97d:05006**

Items with secondary classifications in 05A05

Brown, Jason I. (*with* Watson, W. Stephen) The number of complements of a topology on n points is at least 2^n (except for some special cases). (English summary) **97d:54004**
Caro, Yair Two combinatorial problems on posets. (English summary) **97d:06002**
Edelman, Paul H. Lexicographically first reduced words. (English summary) **97d:05279**
Frankowski, K. *see* **Sobel, Milton, 97c:33014**
Hannenhalli, Sridhar (*with* Pevzner, Pavel A.) Towards a computational theory of genome rearrangements. (English summary) **97a:92007**
Jennings, Derek Counting sets of integers with various summation properties. **97d:11019**
Kerov, S. V. (*with* Tsilevich, N. V.) A random subdivision of an interval generates virtual permutations with the Ewens distribution. (Russian. English and Russian summaries) **97a:60011**
Kim, Jeong Han On increasing subsequences of random permutations. (English summary) **97f:60024**
Loeb, Daniel E. The fundamental theorem of voting schemes. **97j:90027**
Nishimura, Takashi (*with* Takahashi, Shin) Around Frankl conjecture. **97j:05059**
Noonan, John The number of permutations containing exactly one increasing subsequence of length three. (English summary) **97a:05019**
Penaud, Jean-Guy Une preuve bijective d'une formule de Touchard-Riordan. (English and French summaries) [A bijection proof of a Touchard-Riordan formula] **97b:05010**
Pevzner, Pavel A. *see* **Hannenhalli, Sridhar, 97a:92007**
Simons, Gordon (*with* Yao, Yi-Ching) Asymptotic sine laws arising from alternating random permutations and sequences. (English summary) **97b:60011**
Sobel, Milton (*with* Frankowski, K.) Hypergeometric analogues of multinomial type-1 Dirichlet problems. (English summary) **97c:33014**
Takahashi, Shin *see* **Nishimura, Takashi, 97j:05059**
Tsilevich, N. V. *see* **Kerov, S. V., 97a:60011**
Watson, W. Stephen *see* **Brown, Jason I., 97d:54004**
Yao, Yi-Ching *see* **Simons, Gordon, 97b:60011**

05A10 Factorials, binomial coefficients, combinatorial functions [see also 11B65, 33Cxx]

Ando, Shiro (*with* Sato, Daihachiro) Multiple color version of the Star of David theorems on Pascal's triangle and related arrays of numbers. **97d:05007**

— (*with* Sato, Daihachiro) Minimal center covering stars with respect to LCM in Pascal's pyramid and its generalizations. **97h:05011**
Fowler, David The binomial coefficient function. **97b:05003**
Grimaldi, Ralph P. The Catalan numbers via a partition. **97a:05015**
Holte, John M. Asymptotic prime-power divisibility of binomial, generalized binomial, and multinomial coefficients. (English summary) **97m:05005**
Kölbig, K. S. (*with* Strampp, Walter) Some infinite integrals with powers of logarithms and the complete Bell polynomials. (English summary) **97d:05008**
Kolesnik, A. D. Combinatorial formula for generalized Fibonacci sequence and Chebyshev's polynomials of two variables. (English, Russian and Moldavian summaries) **97a:05016**
Krattenthaler, Christian HYP and HYPQ: Mathematica packages for the manipulation of binomial sums and hypergeometric series, respectively q-binomial sums and basic hypergeometric series. (English summary) **97j:05004**
Labelle, Gilbert (*with* Laforest, Louise) Étude de constantes universelles pour les arborescences hyperquaternaires de recherche. (French summary) [Study of universal constants for hyperquaternary search arborescences] **97c:05003**
Laforest, Louise *see* **Labelle, Gilbert, 97c:05003**
Le, Mao Hua A note on the generalized Bernoulli sequences. (English summary) **97g:05005**
Mishra, S. S. *see* **Shukla, R. N., 97g:05006**
Randrianarivony, Arthur (*with* Zeng, Jiang) Une famille de polynômes qui interpole plusieurs suites classiques de nombres. (English summary) [A family of polynomials interpolating several classical number sequences] **97e:05009**
Sachkov, Vladimir N. Ideals and filters of partitions and cyclic classes, and invariance domains of permutations. (Russian. Russian summary) **97k:05007**
Sato, Daihachiro *see* **Ando, Shiro, 97d:05007** *and* **97h:05011**
Shukla, R. N. (*with* Mishra, S. S.) Some important theorems on multivariate Bernoulli polynomials of second kind. (Hindi. English and Hindi summaries) **97g:05006**
Strampp, Walter *see* **Kölbig, K. S., 97d:05008**
Sun, Zhi Hong A supplement to a binomial inversion formula. (Chinese. English and Chinese summaries) **97d:05009**
Wang, Chun Representing the combinatorial transform and its inversion formula by differences. (Chinese. English and Chinese summaries) **97b:05004**
Wang, Tian Ming *see* **Yu, Hong Quan, 97d:05011**
Yang, Winston Bell numbers and k-trees. (English summary) **97c:05004**
Yeung, Kit-Ming Some combinatorial identities involving Stirling numbers. **97d:05010**
Yu, Hong Quan (*with* Wang, Tian Ming) Two weighted Stirling type pairs and their properties. (Chinese. English and Chinese summaries) **97d:05011**
Zeilberger, Doron Proof of the alternating sign matrix conjecture. (English summary) **97d:05012**
Zeng, Jiang *see* **Randrianarivony, Arthur, 97e:05009**

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(Bennett, John M.) *see* **Kanga, A. R., 97e:00003**
Cerasoli, Mauro Integer sequences and umbral calculus. (English and Italian summaries) **97d:05023**
Clark, W. Edwin (*with* Ismail, Mourad E. H.) Binomial and Q-binomial coefficient inequalities related to the Hamiltonicity of the Kneser graphs and their Q-analogues. (English summary) **97j:05039**
Engel, Konrad (*with* Rommel, Christoph) The Jordan normal form of matrices with products of binomial coefficients as entries. (English summary) **97b:15012**
Garsia, A. M. (*with* Haiman, M.) A remarkable q,t-Catalan sequence and q-Lagrange inversion. (English summary) **97k:05208**
Gould, Henry W. (*with* Schlesinger, Paula) Extensions of the Hermite G.C.D. theorems for binomial coefficients. **97g:11015**
Haiman, M. *see* **Garsia, A. M., 97k:05208**
Han, Jian Min Determinants in Hui Yang's triangle. (Chinese. English and Chinese summaries) **97k:15013**
Hirschhorn, Michael D. Calkin's binomial identity. (English summary) **97f:05015**
Howard, Fred T. Explicit formulas for degenerate Bernoulli numbers. (English summary) **97m:11024**
Hsu, Leetsch Charles (*with* Shiue, Peter Jau-Shyong) On a combinatorial expression concerning Fermat's last theorem. **97h:11029**
Inui, Norio (*with* Katori, Makoto) Catalan numbers in a series expansion of the directed percolation probability on a square lattice. (English summary) **97g:82006**
Ismail, Mourad E. H. *see* **Clark, W. Edwin, 97j:05039**
Jiménez Calvo, I. (*with* Muñoz Masqué, Jaime) Fractals related to Pascal's triangle. (English summary) **97j:28019**
Kanga, A. R. ★ Number mosaics. (English summary) **97e:00003**
Karachik, V. V. p-Latin matrices and Pascal's triangle modulo a prime. **97d:11037**
Katori, Makoto *see* **Inui, Norio, 97g:82006**
(Knuth, Donald E.) *see* **Petkovšek, Marko; et al., 97j:05001**
Kornved, Ed GCD properties of an octagon. **97c:11027**
Kubo, Tal (*with* Vakil, Ravi) On Conway's recursive sequence. (English summary) **97c:11015**
Lengyel, Tamás On some properties of the series $\sum_{k=0}^{\infty} k^n x^k$ and the Stirling numbers of the second kind. (English summary) **97e:11032**
McIntosh, Richard J. An asymptotic formula for binomial sums. (English summary) **97b:11023**
Méndez, Miguel Plethystic exponential polynomials and plethystic Stirling numbers. (English summary) **97a:05023**
Muñoz Masqué, Jaime *see* **Jiménez Calvo, I., 97j:28019**
Nilsson, Bengt E. W. (*with* Sundell, Per) A new relation among Catalan numbers. (English summary) **97d:11038**
Paule, Peter (*with* Schorn, Markus) A Mathematica version of Zeilberger's algorithm for proving binomial coefficient identities. (English summary) **97j:39006**
— A proof of a conjecture of Knuth. (English summary) **97k:33004**
Petkovšek, Marko (*with* Wilf, Herbert S.; Zeilberger, Doron) ★ $A = B$. (English summary) **97j:05001**
Rommel, Christoph *see* **Engel, Konrad, 97b:15012**
Schlesinger, Paula *see* **Gould, Henry W., 97g:11015**
Schorn, Markus *see* **Paule, Peter, 97j:39006**
Sendrier, Nicolas On the dimension of the hull. (English summary) **97m:11153**
Shiue, Peter Jau-Shyong *see* **Hsu, Leetsch Charles, 97h:11029**
Sundell, Per *see* **Nilsson, Bengt E. W., 97d:11038**
Takayama, Nobuki An algorithm for finding recurrence relations of binomial sums and its complexity. (English summary) **97j:33009**
Vakil, Ravi *see* **Kubo, Tal, 97c:11015**
West, Julian Generating trees and the Catalan and Schröder numbers. (English summary) **97k:05010**
Wilf, Herbert S. *see* **Petkovšek, Marko; et al., 97j:05001**
Yen, Lily A two-line algorithm for proving terminating hypergeometric identities. (English summary) **97c:33008**
Zeilberger, Doron *see* **Petkovšek, Marko; et al., 97j:05001**

05A15 Exact enumeration problems, generating functions [see also 33Cxx, 33Dxx]

Alon, Noga (*with* Fan, C. Kenneth; Kleitman, Daniel J.; Losonczy, Jozsef) Acyclic matchings. (English summary) **97h:05012**
Barcucci, Elena (*with* Del Lungo, Alberto; Pergola, Elisa; Pinzani, Renzo) A construction for enumerating k-coloured Motzkin paths. (English summary) **97m:05006**
Benchekroun, S. (*with* Moszkowski, Paul) A new bijection between ordered trees and legal bracketings. (English summary) **97e:05010**
Bender, Edward A. (*with* Canfield, E. Rodney) Log-concavity and related properties of the cycle index polynomials. (English summary) **97b:05005**
Bousquet-Mélou, Mireille A method for the enumeration of various classes of column-convex polygons. (English summary) **97g:05007**
Brown, Peter G. A lattice point counting problem.
Canfield, E. Rodney *see* **Bender, Edward A., 97b:05005**
Chen, Beifang Parametric Möbius inversion formulas. (English summary) **97m:05007**
Chen, William Y. C. The skew, relative, and classical derangements. (English summary) **97g:05008**
— (*with* Louck, James D.) Necklaces, MSS sequences, and DNA sequences. (English summary) **97j:05005**
Chernoff, W. W. Solutions to $x^r = \alpha$ in the alternating group. (English summary) **97e:05011**
Choi, Seul Hee Enumeration of NSEW-paths in restricted planes. **97f:05004**
Clarke, Robert John[1] (*with* Foata, Dominique) Eulerian calculus. IV. Specializations. (English summary) **97j:05006**
— (*with* Foata, Dominique) Eulerian calculus. II. An extension of Han's fundamental transformation. (English summary) **97b:05006**
— (*with* Foata, Dominique) Eulerian calculus. III. The ubiquitous Cauchy formula. (English and French summaries) **97b:05007**
— (*with* Steingrímsson, Einar; Zeng, Jiang) New Euler-Mahonian statistics on permutations and words. (English summary) **97m:05008**
Décoste, Hélène (*with* Labelle, Gilbert) Le q-dénombrement générique d'une espèce: existence et méthode de calcul. (English summary) [The generic q-enumeration of a species: existence and method of computation] **97e:05012**
Delest, Marie-Pierre (*with* Dubernard, J. P.; Dutour, I.) Parallelogram polyominoes and corners. (English summary) **97k:05008**
Del Lungo, Alberto *see* **Barcucci, Elena; et al., 97m:05006**
Désarménien, Jacques Distribution de l'indice majeur réduit sur les dérangements. [Distribution of the reduced major index on derangements] **97k:05009**
Diaconis, Persi (*with* Gangolli, Anil) Rectangular arrays with fixed margins. (English summary) **97e:05013**
Ding, Kequan (*with* Terwilliger, Paul M.) On Garsia-Remmel problem of rook equivalence. (English summary) **97b:05008**
Domocoș, Virgil A combinatorial method for the enumeration of column-convex polyominoes. (English summary) **97c:05005**
Doroslovački, Rade The set of all the words of length n over alphabet $\{0,1\}$ with any forbidden subword of length three. (English summary) **97d:05020**
Dubernard, J. P. (*with* Dutour, I.) Énumération de polyominos convexes dirigés. (English and French summaries) [Enumeration of directed convex polyominoes] **97f:05005**
— *see also* **Delest, Marie-Pierre; et al., 97k:05008**
Dumont, Dominique (*with* Ramamonjisoa, Armand) Grammaire de Ramanujan et arbres de Cayley. (English summary) [Ramanujan grammar and Cayley graphs] **97f:05006**
Dutour, I. *see* **Dubernard, J. P., 97f:05005** *and* **Delest, Marie-Pierre; et al., 97k:05008**
Eriksson, Kimmo (*with* Linusson, Svante) The size of Fulton's essential set. (English summary) **97d:05013**
Erné, Marcel (*with* Stege, Kurt) Combinatorial applications of ordinal sum decompositions. (English summary) **97a:05017**
Fan, C. Kenneth *see* **Alon, Noga; et al., 97h:05012**
Foata, Dominique *see* **Clarke, Robert John[1], 97b:05006; 97b:05007** *and* **97j:05006**
Gangolli, Anil *see* **Diaconis, Persi, 97e:05013**
Gessel, Ira M. (*with* Goddard, Wayne D.; Shur, Walter; Wilf, Herbert S.; Yen, Lily) Counting pairs of lattice paths by intersections. (English summary) **97d:05014**
— (*with* Shur, Walter) Even and odd pairs of lattice paths with multiple intersections. (English summary) **97d:05015**
— (*with* Krattenthaler, Christian) Cylindric partitions. (English summary) **97e:05014**
Goddard, Wayne D. *see* **Gessel, Ira M.; et al., 97d:05014**
Goulden, Ian P. (*with* Jackson, David M.) Transitive factorisations into transpositions and holomorphic mappings on the sphere. (English summary) **97j:05007**
Grimaldi, Ralph P. Generating sets and the Fibonacci numbers. **97a:05018**
Han, Guo-Niu Ordres bipartitionnaires et statistiques sur les mots. (French summary) [Bipartition orders and statistics on words] **97c:05006**
— Symétries trivariées sur les nombres de Genocchi. (English and French summaries) [Trivariate symmetries on Genocchi numbers] **97e:05015**
Hibi, Takayuki The world of "enumeration". (Japanese) **97d:05016**

Hildebrand, Martin (*with* Starkweather, John) Log concavity involving the number of paths from the origin to points along the line $(a,b,c,d)+t(1,-1,1,-1)$. (English summary) **97g:05009**
Hochstättler, Winfried (*with* Loebl, Martin; Moll, Christoph) Generating convex polyominoes at random. (English summary) **97f:05007**
Horibata, Takatoshi *see* **Midorikawa, Shoichi[2]; et al., 97h:05013**
Huang, I-Wen (*with* Yang, Bo-Yin; Yeh, Yeong-Nan) Wiener indices of hex carpets—from hexagon models to square grids. (English summary) **97c:05007**
Hurtado, Ferrán (*with* Noy, M.) Counting triangulations of almost-convex polygons. (English summary) **97m:05009**
Hwang, Frank K. Extremal permutations with respect to weak majorizations. (English summary) **97d:05017**
Ibn-Majdoub-Hassani, Fouad Generating functions for directed animals, convex following their direction. (English summary) **97i:05007**
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— *see also* **Goulden, Ian P., 97j:05007**
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— (*with* Zeng, Jiang) Some equidistributed statistics on Genocchi permutations. (English summary) **97k:05012**
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— Sur quelques propriétés de symétrie des nombres de Genocchi. (English summary) [On some symmetry properties of Genocchi numbers] **97k:05015**
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05A17 Partitions of integers [see also 11P81, 11P82, 11P83]

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— Rogers-Ramanujan polynomials for modulus 6. (English summary) **97e:11128**
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Ding, Kequan (*with* Terwilliger, Paul M.) On Garsia-Remmel problem of rook equivalence. (English summary) **97b:05008**
Erdős, Paul[1] (*with* Nicolas, J. L.) On practical partitions. (English summary) **97b:11122**
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Cohen, Gérard Denis (*with* Litsyn, S. N.; Vardy, Alexander; Zémor, Gilles) Tilings of binary spaces. (English summary) **97g:05050**
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Wachs, Michelle L. A basis for the homology of the d-divisible partition lattice. **97a:05216**
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05A19 Combinatorial identities

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Strehl, Volker (*with* Wilf, Herbert S.) Five surprisingly simple complexities. (English summary) **97j:05011**
Tang, You Hua Combinatorial identities of a new type. II. (Chinese. English and Chinese summaries) **97m:05014**
Wang, Tian Ming (*with* Ma, Xin Rong) Lattice paths and Vandermonde convolution identities. (Chinese. English and Chinese summaries) **97k:05020**
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05A20 Combinatorial inequalities

Brenti, Francesco The applications of total positivity to combinatorics, and conversely. (English summary) **97k:05021**
Talagrand, Michel How much are increasing sets positively correlated? (English summary) **97e:05031**

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Pitman, Jim Probabilistic bounds on the coefficients of polynomials with only real zeros. (English summary) **97m:05013**
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05A30 q-calculus and related topics [see also 03Dxx]

Andrews, George E. On a conjecture of Peter Borwein. (English summary) **97j:05013**
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Khan, Mumtaz Ahmad (*with* Sharma, A. K.) A note on q-Lagrange polynomials. (English summary)
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05A40 Umbral calculus

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Cholewinski, Frank M. Hypergeometric commutators associated with the Euler operator. (English summary) **97h:33007**

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Boman, Jan (*with* Linusson, Svante) Examples of non-uniqueness for the combinatorial Radon transform modulo the symmetric group. **97g:05014**
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Cummings, Larry J. Strongly square-free strings on three letters. (English summary) **97f:05019**
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Amel'kin, V. A. ★ Алгоритмы нумерации последовательностей, составленных из серий. (Russian. Russian summary) [Algorithms for the enumeration of sequences composed of series] **97g:94007**
Bajnok, Béla (*with* Shahriari, Shahriar) Long symmetric chains in the Boolean lattice. (English summary) **97g:06002**
Berlekamp, Elwyn (*with* Kim, Yonghoan) Where is the "Thousand-Dollar Ko"? (English summary) **97i:90133**
Chang, Gerard J. (*with* Tsay, Yuh-Jiuan) The partial gossiping problem. (English summary) **97a:90016**
Conway, John H. The angel problem. (English summary) **97m:90123**
Elkies, Noam D. On numbers and endgames: combinatorial game theory in chess endgames. (English summary) (*see* **97h:90004**)
Erdős, Paul[1] Some of my recent problems in combinatorial number theory, geometry and combinatorics. (English summary) **97k:52019**
Erickson, Jeff New Toads and Frogs results. (English summary) **97i:90134**
— Sowing games. (English summary) (*see* **97h:90004**)
Ernst, Michael D. Playing Konane mathematically: a combinatorial game-theoretic analysis.
Flajolet, Philippe (*with* Salvy, Bruno) Computer algebra libraries for combinatorial structures. (English summary) **97j:68096**
Garcia, Dan Xdom: a graphical, X-based front-end for Domineering. (English summary) (*see* **97h:90004**)
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Georgescu, Gianina Infinite hierarchies of pattern languages. (English summary) **97f:68093**
Golić, Jovan Dj. Constrained embedding probability for two binary strings. (English summary) **97e:94009**
Guy, Richard K. Combinatorial games. **97j:90099**
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Shur, A. M. Binary avoidability and Thue-Morse words. (Russian)
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05Bxx Designs and configurations {For applications of design theory, see 94C30.}

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(Colbourn, Charles J.) *see* **Handbook: Combinatorial designs, 97a:05001**
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05B05 Block designs [see also 51E05, 62K10]

Abel, R. J. R. (*with* Greig, Malcolm) Some new RBIBDs with block size 5 and PBDs with block sizes $\equiv 1 \bmod 5$. (English summary) **97m:05018**
Acketa, Dragan M. (*with* Mudrinski, Vojislav) On some 4- and 5-designs on ≤ 49 points. (English summary) **97d:05026**
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Adams, Peter (*with* Bryant, Darryn E.; Khodkar, A.) On the existence of super-simple designs with block size 4. (English summary) **97d:05027**
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Ali, Syed Anwer Symmetrical incomplete block designs with $b = v = 37$, $r = k = 9$ and $\lambda = 2$. (English summary) **97i:05009**
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05B25 Finite geometries [see also 51D20, 51Exx]

Baker, C. A. (*with* Fleming, Michael; Shalaby, Nabil) Large sets of affine planes of order 4: a preliminary report. (*see* **97h:05007**)
Blokhuis, Aart (*with* Pellikaan, Ruud; Szőnyi, Tamás) Blocking sets of almost Rédei type. (English summary) **97k:05043**
Čepulić, Vladimir (*with* Essert, Mario) Biplanes (56, 11, 2) with involutory automorphism fixing 14 points. (English summary) **97e:05052**
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Glynn, David G. A geometrical construction of $(k; r, s; n, q^2)$-sets. (English summary) **97m:05052**
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Piotrowski, Wiktor (*with* Sreenivasan, Renganathan) Affine and extremal sets in convex geometries. (English summary) **97m:05053**
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Ferrara Dentice, Eva (*with* Lo Re, Pia Maria; Melone, Nicola) A combinatorial characterization of the Klein quadric. (English summary) **97j:51013**
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Hamada, Noboru (*with* Watamori, Yoko) The nonexistence of some ternary linear codes of dimension 6 and the bounds for $n_3(6, d)$, $1 \le d \le 243$. (English summary) **97k:94049**

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Neumann, Peter M. (*with* Praeger, Cheryl E.) An inequality for tactical configurations. **97c:05040**
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05B30 Other designs, configurations [see also 51E30]

Adams, Peter (*with* Billington, Elizabeth J.) Lambda-fold 3-perfect 9-cycle systems. (English summary) **97m:05055**
— (*with* Billington, Elizabeth J.; Bryant, Darryn E.) The spectrum for lambda-fold Steiner pentagon systems. (English summary) **97m:05056**
— (*with* Bryant, Darryn E.) i-perfect m-cycle systems, $m \leq 19$. (English summary) **97m:05057**
— (*with* Bryant, Darryn E.; Khodkar, A.; El-Zanati, Saad I.) The intersection problem for cubes. (English summary) **97m:05058**
Anderson, Ian (*with* Finizio, Norman J.; Odoni, R. W. K.) Character sums and Z-cyclic whist tournaments. (English summary) **97d:05046**
Ashlock, Daniel Finding designs with genetic algorithms. (English summary) (*see* **97j:05002**)
Billington, Elizabeth J. (*with* Gionfriddo, M.; Lindner, Charles C.) The intersection problem for $K_4 - e$ designs. (English summary) **97m:05059**
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— (*with* Khodkar, A.) A census of $(9; 1; 3, 2)$ balanced ternary designs. (English summary) **97h:05035**
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— (*with* Sottile, Frank; Stroomer, Jeffrey) Tableau switching: algorithms and applications. (English summary) **97m:05261**
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— Some remarks on filtrations and plethysms. **97i:20054**
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Goulden, Ian P. (*with* Jackson, David M.) Maps in locally orientable surfaces, the double coset algebra, and zonal polynomials. (English summary) **97h:05051**
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Eriksson, Kimmo Reduced words in affine Coxeter groups. (English and French summaries) **97k:05206**
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Shapiro, Boris Z. (*with* Shapiro, M. Z.; Vaĭnshteĭn, A. D.) Topology of intersections of Schubert cells and Hecke algebra. (English summary) **97d:14073**
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05E20 Group actions on designs, geometries and codes

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05E25 Group actions on posets and homology groups of posets [see also 06A09]

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Sundaram, Sheila Plethysm, partitions with an even number of blocks and Euler numbers. (English summary) **97c:05162**
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05E30 Association schemes, strongly regular graphs

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Nair, B. Radhakrishnan (*with* Vijayakumar, Ambat) Strongly edge triangle regular graphs and a conjecture of Kotzig. (English summary) **97d:05283**
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Vu, Van H. A strongly regular n-full graph of small order. (English summary) **97c:05165**
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Xu, Bang Teng Association schemes with fixed valence. I. (Chinese. English and Chinese summaries) **97e:05201**
Yebra, J. L. A. *see* **Fiol, M. A.; et al., 97j:05064**
You, Hong (*with* Nan, Ji Zhu) Using matrices over $\mathbf{Z}/p^n\mathbf{Z}$ to construct an association scheme and PBIB designs with several association classes. (Chinese. English and Chinese summaries) **97m:05266**
Zhu, Xue Li (*with* Li, Feng Gao²) A construction of association schemes with several associative classes and of PBIB designs using m-flats in finite affine geometries. (Chinese)

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Bannai, Etsuko Representations of mapping class groups obtained from the modular invariance property of cyclic group association schemes. **97f:57013**
Brouwer, Andries E. (*with* Wilbrink, Henny A.) Block designs. **97j:05018**
Godsil, Chris D. Covers of complete graphs. (English summary) **97m:05201**
Haemers, Willem H. Distance-regularity and the spectrum of graphs. (English summary) **97e:05144**
Hora, Akihito Towards critical phenomena for random walks on various algebraic structures. **97e:60119**
Koolen, J. H. A characterization of the Doob graphs. (English summary) **97b:05127**
— On a conjecture of Martin on the parameters of completely regular codes and the classification of the completely regular codes in the Biggs-Smith graph. (English summary) **97j:94021**
Koppinen, M. On algebras with two multiplications, including Hopf algebras and Bose-Mesner algebras. **97e:16092**
Makhnëv, A. A. On strongly regular extensions of generalized quadrangles with short straight lines. (Russian. Russian summary) **97i:51008**
— On pseudo-geometric graphs of the partial geometries $pG_2(4, t)$. (Russian. Russian summary) **97f:51015**
Marenich, E. E. The singularity of some relations and their combinatorial applications. (Russian. Russian summary) **97f:08001**
Mathon, Rudolf (*with* Street, Anne Penfold) Partitions of sets of two-fold triple systems, and their relation to some strongly regular graphs. (English summary) **97d:05039**
Nomura, Kazumasa Spin models and almost bipartite 2-homogeneous graphs. (English summary) **97k:05173**
Prasad, K. C. *see* **Singh, M. K.**
Saidi, Samira On Johnson schemes. **97g:94042**
Singh, M. K. (*with* Prasad, K. C.) On a construction of Hadamard matrix. (English summary)
Spielman, Daniel A. Faster isomorphism testing of strongly regular graphs. (English summary) (*see* **97g:68005**)
Street, Anne Penfold *see* **Mathon, Rudolf, 97d:05039**
West, Douglas B. The superregular graphs. (English summary) **97k:05176**
Wilbrink, Henny A. *see* **Brouwer, Andries E., 97j:05018**
Wildberger, N. J. Lagrange's theorem and integrality for finite commutative hypergroups with applications to strongly regular graphs. (English summary) **97e:20103**
Yamada, Mieko Hadamard matrices and spin models. (English summary) **97e:05051**
Yoshizawa, Mitsuo Steiner systems $S(3, k, v)$ and association schemes. (English summary) **97d:05040**

05E35 Orthogonal polynomials [see also 33C45, 33C50, 33D45]

Items with secondary classifications in 05E35

Belmehdi, S. *see* **Ronveaux, André; et al., 97j:33019**
Forrester, P. J. Jack polynomials and the multi-component Calogero-Sutherland model. (English summary) **97k:82016**
Godoy, E. *see* **Ronveaux, André; et al., 97j:33019**
Hikami, Kazuhiro Affine Hecke algebra, Macdonald polynomials, and quantum many-body systems. (English summary) **97f:81187**
Kaneko, Jyoichi A triple product identity for Macdonald polynomials. **97i:33012**
Ronveaux, André (*with* Belmehdi, S.; Godoy, E.; Zarzo, A.) Recurrence relation approach for connection coefficients. Applications to classical discrete orthogonal polynomials. (English summary) **97j:33019**
Zarzo, A. *see* **Ronveaux, André; et al., 97j:33019**

05E99 None of the above, but in this section

Huffman, W. C. The equivalence of two cyclic objects on pq elements. (English summary) **97d:05286**
Kerber, Adalbert Algebraic combinatorics in Bayreuth. (English summary)

Items with secondary classifications in 05E99

Athanasiadis, Christos A. Characteristic polynomials of subspace arrangements and finite fields. (English summary) **97k:52012**
Beaver, Donald (*with* Haber, Stuart; Winkler, Peter M.) On the isolation of a common secret. (English summary) **97k:94024**
Guelzow, Andreas J. Representation of finite nilpotent squags. (English summary) **97d:05037**
Haber, Stuart *see* **Beaver, Donald; et al., 97k:94024**
Winkler, Peter M. *see* **Beaver, Donald; et al., 97k:94024**

06–XX Order, lattices, ordered algebraic structures [see also 18B35]

06–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 06–01

Aigner, Martin ★ Combinatorial theory.

06–02 Research exposition (monographs, survey articles)

Lavrič, Boris ★ Delno urejene grupe in delno urejeni kolobarji. (Slovenian. English and Slovenian summaries) [Partially ordered groups and partially ordered rings] **97c:06001**

Items with secondary classifications in 06–02

Birkhoff, Garrett Lattices and their applications. **97e:06001**
Kopytov, Valeriĭ M. (*with* Medvedev, Nikolaĭ Ya.) ★ The theory of lattice-ordered groups. (English summary) **97k:06028**
Medvedev, Nikolaĭ Ya. *see* **Kopytov, Valeriĭ M., 97k:06028**

06–03 Historical (must also be assigned at least one classification number from Section 01)

Birkhoff, Garrett Lattices and their applications. **97e:06001**

06–04 Explicit machine computation and programs (not the theory of computation or programming)

McCune, W. (*with* Padmanabhan, R.) Single identities for lattice theory and for weakly associative lattices. (English summary) **97h:06001**
Padmanabhan, R. *see* **McCune, W., 97h:06001**

06–06 Proceedings, conferences, collections, etc.

(Holland, W. Charles) *see* **Ordered algebraic structures, 97j:06001**
(Martinez, Jorge²) *see* **Ordered algebraic structures, 97j:06001**

Items listed otherwise than by author

Conference:
Ordered Algebraic Structures ★ Ordered algebraic structures. **97j:06001**
Curaçao ★ Ordered algebraic structures. **97j:06001**
Ordered algebraic structures ★ Ordered algebraic structures. **97j:06001**
Special Issue:
MV-algebras ★ Special issue on MV-algebras. **97a:06001**

Items with secondary classifications in 06–06

Monteiro, António Aniceto Ribeiro ★ Unpublished papers. I. **97i:06009**

Items listed otherwise than by author

Collected Works:
Monteiro, António Aniceto Ribeiro *see* **Monteiro, António Aniceto Ribeiro, 97i:06009**
Unpublished papers *see* **Monteiro, António Aniceto Ribeiro, 97i:06009**

06Axx Ordered sets

06A05 Total order

Harzheim, Egbert A reconstruction problem for linearly ordered sets. (*see* **97e:05001**)

Items with secondary classifications in 06A05

Maurin, Françoise Exact complexity bounds for ordinal addition. (English and French summaries) **97j:03079**
Rödl, Vojtěch *see* **Svarc, R.; et al., 97h:06002**
Svarc, R. (*with* Rödl, Vojtěch; Wysocka, Beata) Extremal problems for linear orders on $[n]^p$. (English summary) **97h:06002**
Wysocka, Beata *see* **Svarc, R.; et al., 97h:06002**

06A06 Partial order, general

Abian, A. (*with* Bondari, S.) Generic chains and generic directed subsets of partially ordered sets. (English and Romanian summaries) **97k:06001**
Bege, Antal Some remarks concerning fixed points in partially ordered sets.
Behrendt, Gerhard Automorphism groups of posets containing no crowns. (*see* **97e:05001**)
— Automorphism group and dimension of ordered sets. (English summary) **97a:06002**
Boldi, Paolo Maximal chains and antichains in strongly Noetherian semiorders. (English summary) **97j:06002**
Bondari, S. *see* **Abian, A., 97k:06001**
Chajda, Ivan *see* **Halaš, Radomír, 97k:06003**
Chandran, V. R. (*with* Padmanabhan, K. S.) Cricket as a model for p. o. sets. (English summary)
Chen, Ting[1] *see* **Luo, Yun Feng; et al.**
Davidson, Michelle (*with* Grätzer, George) A note on coalitions. (English summary) **97a:06003**
Dokas, Lambros (*with* Stabakis, John) Comments on the completeness of order complements and on the Prüfer numbers. (English summary)
Duffus, Dwight (*with* Goddard, T.) Products of chains with monochromatic maximal chains and antichains. (English summary) **97g:06001**
Fofanova, Tatiana (*with* Rival, Ivan; Rutkowski, Aleksander) Dimension two, fixed points and dismantlable ordered sets. (English summary) **97k:06002**
Goddard, T. *see* **Duffus, Dwight, 97g:06001**
Grätzer, George *see* **Davidson, Michelle, 97a:06003**
Halaš, Radomír (*with* Rachůnek, Jiří) Polars and prime ideals in ordered sets. (English summary) **97d:06001**
— Decompositions of directed sets with zero. (English summary) **97a:06004**
— (*with* Chajda, Ivan) Indexed annihilators in ordered sets. (English summary) **97k:06003**
— Some properties of Boolean ordered sets. **97c:06002**
Hemion, Geoffrey A class of partially ordered sets. (English summary) **97j:06003**
Klazar, Martin On well quasiordering of finite languages. (English summary) **97k:06004**
Larose, Benoit (*with* Zádori, László) Algebraic properties and dismantlability of finite posets. (English summary) **97k:06005**
Lepin, V. V. On the width of the front of a planar distributive lattice. (Russian. English and Russian summaries) **97k:06006**
Lihová, Judita A note on the distance poset of posets. (English summary) **97f:06001**
Luo, Yun Feng (*with* Yue, Chao Yuan; Chen, Ting[1]) The construction of a lexicographic ordering based on self-reflexive signed orders. (Chinese. English and Chinese summaries)
Menon, Venu G. Separating points in posets. **97a:06005**
Mitas, Jutta Interval orders based on arbitrary ordered sets. (English summary) **97f:06002**
Ovchinnikov, Sergei Means on ordered sets. (English summary) **97k:06007**
Padmanabhan, K. S. *see* **Chandran, V. R.**
Pulmannová, Sylvia Congruences in partial abelian semigroups. (English summary) **97i:06001**
Rachůnek, Jiří *see* **Halaš, Radomír, 97d:06001**
Ribenboim, Paulo Ordering the set of antichains of an ordered set. (English summary) **97a:06006**
Rigollet, Luc (*with* Thomassé, Stéphane) Relations infinies indécomposables critiques. (English and French summaries) [Critically indecomposable infinite relations] **97k:06008**
Rival, Ivan Order, ice and surfaces. **97k:06009**
— *see also* **Fofanova, Tatiana; et al., 97k:06002**
Rödl, Vojtěch *see* **Svarc, R.; et al., 97h:06002**
Rutkowski, Aleksander *see* **Fofanova, Tatiana; et al., 97k:06002**
Stabakis, John *see* **Dokas, Lambros**
Svarc, R. (*with* Rödl, Vojtěch; Wysocka, Beata) Extremal problems for linear orders on $[n]^p$. (English summary) **97h:06002**
Thomassé, Stéphane *see* **Rigollet, Luc, 97k:06008**
Truss, J. K. Betweenness relations and cycle-free partial orders. **97a:06007**
Wysocka, Beata *see* **Svarc, R.; et al., 97h:06002**
Yue, Chao Yuan *see* **Luo, Yun Feng; et al.**
Zádori, László *see* **Larose, Benoit, 97k:06005**

Items with secondary classifications in 06A06

Al-Khouja, E. A. *see* **Nakkar, H. M., 97b:06013**
Anderson, Michael Roy Efficient constructions of antichain cutsets. (English summary) **97m:05156**
Auinger, K. (*with* Hall, T. E.) Concepts of congruence, morphic image and substructure for biordered sets. (English summary) **97i:20071**
Baranga, Andrei Z-continuous posets. (English summary) **97f:06015**
Bayoumi, Bayoumi I. (*with* Khamis, Soheir M.) Testing isomorphism and recognition of N-free posets. (English summary) **97h:06003**
Bonsangue, Marcello M. (*with* van Breugel, F.; Rutten, J. J. M. M.) Alexandroff and Scott topologies for generalized metric spaces. (English summary) **97m:68130**
Bouacida, Ezzeddine (*with* Echi, Othman; Salhi, Ezzeddine) Nonfinite heights. **97m:13024**
van Breugel, F. *see* **Bonsangue, Marcello M.; et al., 97m:68130**
Burosch, Gustav (*with* Gronau, Hans-Dietrich O. F.; Laborde, Jean-Marie; Warnke, Ingo) On posets of m-ary words. (English summary) **97e:06002**
Chenier, Christian (*with* Urrutia, Jorge; Zaguia, Nejib) Scheduling tasks with communication delays on parallel processors. (English summary) **97a:68022**
Echi, Othman *see* **Bouacida, Ezzeddine; et al., 97m:13024**
Edelman, Paul H. (*with* Reiner, Victor) The higher Stasheff-Tamari posets. (English summary) **97g:52025**
Fors, Göran Algebraic topological results on Stanley Reisner rings. (English summary) **97g:13040**
Gronau, Hans-Dietrich O. F. *see* **Burosch, Gustav; et al., 97e:06002**
Hall, T. E. *see* **Auinger, K., 97i:20071**
Hibi, Takayuki The world of "enumeration". (Japanese) **97d:05016**
Huang, Luo Sheng *see* **Lin, Ya Nan, 97j:16026**
Jun, Young Bae A note on ordered filters of implicative semigroups.
Khamis, Soheir M. *see* **Bayoumi, Bayoumi I., 97h:06003**
Kreinovich, Vladik Ya. Causality explains why spatial and temporal translations commute: a remark. (English summary) **97b:83067**
Laborde, Jean-Marie *see* **Burosch, Gustav; et al., 97e:06002**
Liang, Ji-Hua (*with* Liu, Ying-Ming) The Isbell topology and the Scott topology on $[X \to L]$. (Chinese. Chinese summary) **97a:06016**
Lin, Ch'iang An application of Ramsey theory to the crossing number of posets. (English summary) **97k:06013**
Lin, Ya Nan (*with* Huang, Luo Sheng) Tree type left hammocks and star type hammocks. (Chinese. English and Chinese summaries) **97j:16026**
Liu, Ying-Ming *see* **Liang, Ji-Hua, 97a:06016**
Marshall, Susan Representing posets with k-tournaments. (English summary) **97d:05133**
McCartan, S. D. *see* **McCluskey, A. E., 97a:54002**
McCluskey, A. E. (*with* McCartan, S. D.) Minimality with respect to Youngs' axiom. (English summary) **97a:54002**
Mesiar, Radko Fuzzy sets, difference posets and MV-algebras. (English summary) (*see* **97e:04009**)
Nakkar, H. M. (*with* Al-Khouja, E. A.) Noetherian lattices in which every element is a product of primary elements. (English summary) **97b:06013**

Nehring, Klaus (*with* Puppe, Clemens) Continuous extensions of an order on a set to the power set. (English summary) **97c:90015**
Nešetřil, Jaroslav (*with* Rödl, Vojtěch) More on the complexity of cover graphs. (English summary) **97e:05185**
Pouzet, Maurice (*with* Rosenberg, Ivo G.; Stone, M. G.) A projection property. (English summary) **97i:08003**
Puppe, Clemens *see* **Nehring, Klaus, 97c:90015**
Reiner, Victor *see* **Edelman, Paul H., 97g:52025**
Rensink, Arend Algebra and theory of order-deterministic pomsets. (English summary) **97k:68053**
Rödl, Vojtěch *see* **Nešetřil, Jaroslav, 97e:05185**
Rosenberg, Ivo G. *see* **Pouzet, Maurice; et al., 97i:08003**
Rutten, J. J. M. M. *see* **Bonsangue, Marcello M.; et al., 97m:68130**
Saïbi, Ezzeddine *see* **Bouacida, Ezzeddine; et al., 97m:13024**
Stanley, Richard P. Hyperplane arrangements, interval orders, and trees. (English summary) **97i:52013**
Stone, M. G. *see* **Pouzet, Maurice; et al., 97i:08003**
Trotter, William T. Partially ordered sets. **97a:06011**
Urrutia, Jorge *see* **Chenier, Christian; et al., 97a:68022**
Vogler, Walter Partial order semantics and weak fairness. (English summary) **97b:68126**
Warnke, Ingo *see* **Burosch, Gustav; et al., 97e:06002**
Zaguia, Nejib *see* **Chenier, Christian; et al., 97a:68022**

06A07 Combinatorics of partially ordered sets

Bajnok, Béla (*with* Shahriari, Shahriar) Long symmetric chains in the Boolean lattice. (English summary) **97g:06002**
Bayoumi, Bayoumi I. (*with* Khamis, Soheir M.) Testing isomorphism and recognition of N-free posets. (English summary) **97h:06003**
Bezrukov, S. L. (*with* Engel, Konrad) Properties of graded posets preserved by some operations. (English summary) **97h:06004**
Bouchitté, Vincent (*with* Hilali, Abdelmajid; Jégou, Roland; Rampon, Jean-Xavier) Contiguity orders. (English summary) **97m:06001**
Brightwell, Graham (*with* Prömel, Hans Jürgen; Steger, Angelika) The average number of linear extensions of a partial order. (English summary) **97h:06005**
Burosch, Gustav (*with* Gronau, Hans-Dietrich O. F.; Laborde, Jean-Marie; Warnke, Ingo) On posets of m-ary words. (English summary) **97e:06002**
Butler, Lynne M. Order analogues and Betti polynomials. (English summary) **97h:06006**
Canfield, E. Rodney (*with* Harper, L. H.) Large antichains in the partition lattice. (English summary) **97a:06008**
Caro, Yair Two combinatorial problems on posets. (English summary) **97d:06002**
Engel, Konrad *see* **Bezrukov, S. L., 97h:06004**
Erdős, Péter L. Splitting property in infinite posets. (English summary) **97g:06003**
Erné, Marcel (*with* Reinhold, Jürgen) Intervals in lattices of quasiorders. (English summary) **97f:06003**
Felsner, Stefan (*with* Wernisch, Lorenz) Markov chains for linear extensions, the two-dimensional case. (English summary) (*see* **97k:68011**)
Fouché, Willem L. Chain partitions of ordered sets. (English summary) **97m:06002**
Gordon, Gary Series-parallel posets and the Tutte polynomial. (English summary) **97h:06007**
Gronau, Hans-Dietrich O. F. *see* **Burosch, Gustav; et al., 97e:06002**
Guidon, Thomas (*with* Hassler, Urs; Nazarova, L. A.; Roiter, Andrei V.) Two reduction algorithms for dyadic sets. (English and French summaries) **97k:06010**
Harper, L. H. *see* **Canfield, E. Rodney, 97a:06008**
Hassler, Urs *see* **Guidon, Thomas; et al., 97k:06010**
Haviar, Alfonz (*with* Klenovčan, Pavel) A metric on a system of ordered sets. (English summary) **97f:06004**
Hetyei, Gábor On the cd-variation polynomials of André and Simsun permutations. (English summary) **97j:06004**
Hilali, Abdelmajid *see* **Bouchitté, Vincent; et al., 97m:06001**
Jégou, Roland *see* **Bouchitté, Vincent; et al., 97m:06001**
Jung, Hyung Chan (*with* Yoon, Young-Jin) The jump number of bipartite posets from matroids. **97k:06011**
Kézdy, André E. (*with* Seif, Steve) When is a poset isomorphic to the poset of connected induced subgraphs of a graph? (English summary) **97k:06012**
Khamis, Soheir M. *see* **Bayoumi, Bayoumi I., 97h:06003**
Klenovčan, Pavel On the s-distance between posets. (English summary) **97g:06004**
— *see also* **Haviar, Alfonz, 97f:06004**
Kratsch, Dieter (*with* Rampon, Jean-Xavier) Width two posets are reconstructible. (English summary) **97h:06008**
Laborde, Jean-Marie *see* **Burosch, Gustav; et al., 97e:06002**
Lashkia, Vaktang (*with* Miyakawa, Masahiro; Nozaki, Akihiro; Pogosyan, G. R.; Rosenberg, Ivo G.) Semirigid sets of diamond orders. (English summary) **97d:06003**
Latka, Brenda J. Tournaments, embeddings, and well-quasi-orderings. (English summary) **97c:06003**
Lengvárszky, Zsolt The Marica-Schönheim inequality in lattices. (English summary) **97f:06005**
Lin, Ch'iang An application of Ramsey theory to the crossing number of posets. (English summary) **97k:06013**
Miyakawa, Masahiro *see* **Lashkia, Vaktang; et al., 97d:06003**
Nazarova, L. A. *see* **Guidon, Thomas; et al., 97k:06010**
Nozaki, Akihiro *see* **Lashkia, Vaktang; et al., 97d:06003**
Pogosyan, G. R. *see* **Lashkia, Vaktang; et al., 97d:06003**
Pouzet, Maurice (*with* Reuter, Klaus; Rival, Ivan; Zaguia, Nejib) A generalized permutahedron. (English summary) **97a:06009**
Prömel, Hans Jürgen *see* **Brightwell, Graham; et al., 97h:06005**
Radcliffe, A. J. (*with* Szaniszló, Zs.) Extremal cases of the Ahlswede-Cai inequality. (English summary) **97e:06003**
Rampon, Jean-Xavier *see* **Kratsch, Dieter, 97h:06008** *and* **Bouchitté, Vincent; et al., 97m:06001**
Reinhold, Jürgen *see* **Erné, Marcel, 97f:06003**
Reuter, Klaus *see* **Pouzet, Maurice; et al., 97a:06009**
Rival, Ivan *see* **Pouzet, Maurice; et al., 97a:06009**
Roiter, Andrei V. *see* **Guidon, Thomas; et al., 97k:06010**
Rosenberg, Ivo G. *see* **Lashkia, Vaktang; et al., 97d:06003**
Sali, Attila On the problem of dimension versus size for lattices. (English summary) **97h:06009**
Seif, Steve *see* **Kézdy, André E., 97k:06012**
Shahriari, Shahriar *see* **Bajnok, Béla, 97g:06002**
Shum, Henry (*with* Trotter, L. E., Jr.) Cardinality-restricted chains and antichains in partially ordered sets. (English summary) **97a:06010**
Steger, Angelika *see* **Brightwell, Graham; et al., 97h:06005**
Stembridge, John R. Enriched P-partitions. (English summary) **97f:06006**
Strahringer, Selma Dimensionality of ordinal structures. (English summary) **97d:06004**
Szaniszló, Zs. *see* **Radcliffe, A. J., 97e:06003**
Takách, Géza Three-generated quasiorder lattices. (English summary) **97m:06003**
Trotter, L. E., Jr. *see* **Shum, Henry, 97a:06010**
Trotter, William T. Partially ordered sets. **97a:06011**
Warnke, Ingo *see* **Burosch, Gustav; et al., 97e:06002**
Wernisch, Lorenz *see* **Felsner, Stefan, (97k:68011)**
Yoon, Young-Jin Bipartite posets with a unique optimal linear extension. **97h:06010**
— *see also* **Jung, Hyung Chan, 97k:06011**
Zaguia, Nejib *see* **Pouzet, Maurice; et al., 97a:06009**

Items with secondary classifications in 06A07

Ahlswede, Rudolf F. (*with* Khachatryan, L. G.) Optimal pairs of incomparable clouds in multisets. (English summary) **97d:05272**
Bahamonde Rionda, Antonio *see* **Vela, Camino R., 97a:68069**
Baier, Christel *see* **Majster-Cederbaum, Mila E., 97c:68053**
Baryshnikov, Yuliy M. (*with* Orlova, E. S.) Determination of maxima for arbitrary orders. (Russian. Russian summary) **97f:90075**
(Bouchitté, Vincent) *see* **Orders, algorithms and applications, 97k:68010**
Brown, Jason I. (*with* Watson, W. Stephen) The number of complements of a topology on n points is at least 2^n (except for some special cases). (English summary) **97d:54004**
Duffus, Dwight (*with* Goddard, T.) Products of chains with monochromatic maximal chains and antichains. (English summary) **97g:06001**
Duval, Art M. Free resolutions of simplicial posets. (English summary) **97m:13031**
Ehrenborg, Richard On posets and Hopf algebras. (English summary) **97e:16079**
Engel, Konrad Interval packing and covering in the Boolean lattice. (English summary) **97m:05192**
Erné, Marcel (*with* Stege, Kurt) Combinatorial applications of ordinal sum decompositions. (English summary) **97a:05017**
Fuchino, Sakaé (*with* Koppelberg, Sabine; Shelah, Saharon) Partial orderings with the weak Freese-Nation property. (English summary) **97h:03085**
Goddard, T. *see* **Duffus, Dwight, 97g:06001**
(Habib, Michel) *see* **Orders, algorithms and applications, 97k:68010**
Khachatryan, L. G. *see* **Ahlswede, Rudolf F., 97d:05272**
Koppelberg, Sabine *see* **Fuchino, Sakaé; et al., 97h:03085**
Lavers, T. G. The monoid of ordered partitions of a natural number. (English summary) **97h:20093**
Leclerc, Bruno Families of chains of a poset and Sperner properties. (English and French summaries) **97k:05197**
Li, Aihua Partially ordered sets of prime ideals and prime filtrations of finitely generated modules.
Linusson, Svante Partitions with restricted block sizes, Möbius functions, and the k-of-each problem. (English summary) **97i:68095**
Majster-Cederbaum, Mila E. (*with* Baier, Christel) Metric completion versus ideal completion. (English summary) **97c:68053**
Mitas, Jutta (*with* Reuter, Klaus) Subgraphs of hypercubes and subdiagrams of Boolean lattices. (English summary) **97f:05055**
(Morvan, Michel) *see* **Orders, algorithms and applications, 97k:68010**
Nešetřil, Jaroslav (*with* Zhu, Xu Ding) Path homomorphisms. (English summary) **97a:05134**
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06B30 Topological lattices, order topologies [see also 06F30, 22A26, 54F05, 54H12]

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06B35 Continuous lattices, generalizations, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]

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06C20 Complemented modular lattices, continuous geometries

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06Dxx Distributive lattices

06D05 Structure and representation theory

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06D10 Complete distributivity

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06D20 Heyting algebras [see also 03Gxx]

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06D30 De Morgan algebras, Łukasiewicz algebras [see also 03G20]

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06E05 Structure theory

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06E20 Ring-theoretic properties [see also 16E50, 16G30]

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06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)

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— On the complexity of restrictions of Boolean functions. (Russian. Russian summary) **97h:68047**
Fei, Ben Chu (*with* Hong, Qing Hua) Simplification of polynomials over GF(3). (Chinese. English and Chinese summaries) **97h:11156**
Gajewska-Kurdziel, Katarzyna Independent sets in algebras of varieties defined by P-compatible identities of Boolean algebras. (English summary) **97b:08006**
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Laita, Luis M. (*with* de Ledesma, Luis; Roanes-Lozano, Eugenio; Roanes-Macías, Eugenio) An interpretation of the propositional Boolean algebra as a k-algebra. Effective calculus. (English summary) (*see* **97m:68003**)
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Leech, Jonathan Skew Boolean algebras. **97a:06018**
Monteiro, António Aniceto Ribeiro (*with* Iturrioz, Luisa) Les algèbres de Tarski avec un nombre fini de générateurs libres. [Tarski algebras with a finite number of free generators] (*see* **97i:06009**)
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06Fxx Ordered structures

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(Holland, W. Charles) *see* **Ordered algebraic structures, 97j:06001**
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Ordered algebraic structures ★ Ordered algebraic structures. **97j:06001**

06F05 Ordered semigroups [see also 20Mxx]

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De Miguel, Juan Ramón (*with* Candeal, Juan Carlos; Induráin Eraso, Esteban) Archimedeaness and additive utility on totally ordered semigroups. (English summary) **97a:06029**
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— (*with* Tsingelis, Michael) Note on prime, weakly prime ideals in ordered semigroups, semigroups. (English summary)
— (*with* Tsingelis, Michael) The embedding of an ordered semigroup in a simple one with identity. **97f:06034**
Kim, Hee Sik *see* **Neggers, J., 97g:06019**
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— (*with* Wu, Ming-Fen) On po-semigroups containing no maximal ideals. (English summary) **97m:06010**
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Buszkowski, Wojciech Representation theorems for implication structures. **97k:03074**
Cerlienco, L. (*with* Mureddu, M.; Piras, F.) Combinatorial-algebraic techniques in Gröbner bases theory. **97h:13022**
Ćirić, Miroslav (*with* Bogdanović, Stojan) The lattice of positive quasi-orders on a semigroup. II. (English and Serbo-Croatian summaries) **97e:20083**
Georgescu, George The reticulation of a quantale. **97g:06011**
Höhle, Ulrich Enriched MV-algebras. (English summary) **97d:06020**
Jun, Young Bae A note on ordered filters of implicative semigroups.
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06F10 Noether lattices

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— (*with* Jayaram, C.) Principal element lattices. **97b:06012**
Jayaram, C. (*with* Johnson, E. W.) Primary elements and prime power elements in multiplicative lattices. **97i:06011**
— *see also* **Anderson, D. D., 97b:06012**
Johnson, E. W. *see* **Anderson, D. D., 97b:06022** *and* **Jayaram, C., 97i:06011**
Nakkar, H. M. (*with* Al-Khouja, E. A.) Noetherian lattices in which every element is a product of primary elements. (English summary) **97b:06013**

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Jayaram, C. (*with* Johnson, E. W.) Some results on almost principal element lattices. (English summary) **97a:06030**
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06F15 Ordered groups [see also 20F60]

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Černáková, Božena Retracts of abelian multilattice groups. (English summary) **97h:06023**
Conrad, P. F. (*with* Darnel, Michael R.) Countably valued lattice-ordered groups. (English summary) **97m:06011**
Daneshgar, Amir Thresholding in a generalized model for translation invariant systems. (English summary)
Darnel, Michael R. (*with* Wojciechowski, Piotr J.) Nearly abelian, nilpotent, and Engel lattice-ordered groups. (English summary) **97d:06023**
— *see also* **Conrad, P. F., 97m:06011**
Gurchenkov, S. A. On Engel lattice-ordered groups. (Russian. Russian summary) **97f:06035**
— On amalgamations in l-varieties. (Russian. Russian summary) **97f:06036**
Harminc, Matúš G-normality of a sequential convergence on an l-group. (English summary) **97e:06019**
Jakubík, Ján On complete lattice ordered groups with strong units. **97d:06024**
— Convexities of lattice ordered groups. (English summary) **97d:06025**
Jasem, Milan Weak isometries and direct decompositions of partially ordered groups. (English summary) **97e:06020**
Keimel, Klaus Some trends in lattice-ordered groups and rings. (English summary) **97c:06021**
Kopytov, Valeriĭ M. (*with* Medvedev, Nikolaĭ Ya.) ★ The theory of lattice-ordered groups. (English summary) **97k:06028**
— (*with* Medvedev, Nikolaĭ Ya.) ★ Right-ordered groups. **97h:06024a**
— (*with* Medvedev, Nikolaĭ Ya.) ★ Правоупорядоченные группы. (Russian. Russian summary) [Right-ordered groups] **97h:06024b**
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Wang, Jian Qiang Extension of the ω-order in a partially ordered group. (Chinese. English and Chinese summaries) **97c:06023**
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Yang, Sheng Liang The lattice of torsion-free radicals of lattice-ordered groups. (Chinese. English and Chinese summaries) **97k:06029**
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Jakubík, Ján Principal convergences on lattice ordered groups. **97k:06030**
Khelif, Anatole Existentially closed models via constructible sets: there are $2^{\aleph_0}$ existentially closed pairwise nonelementarily equivalent existentially closed ordered groups. (English summary) **97c:03108**
Kovář, Tomáš Any DRl-semigroup is the direct product of a commutative l-group and a DRl-semigroup with the least element. (English summary) **97i:06010**
Lavrič, Boris ★ Delno urejene grupe in delno urejeni kolobarji. (Slovenian. English and Slovenian summaries) [Partially ordered groups and partially ordered rings] **97c:06001**
Martinez, Jorge[2] (*with* Woodward, Scott) Specker spaces and their absolutes. II. (English summary) **97g:54026**
Martínez, Nestor G. A simplified duality for implicative lattices and l-groups. (English summary) **97g:06014**
Weinert, Hanns Joachim (*with* Wiegandt, Richard) On the structure of semifields and lattice-ordered groups. **97g:12011**
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06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [see also 46A40]

Cignoli, Roberto Free lattice-ordered abelian groups. (Spanish) (*see* **97b:00023**)
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08B15 Lattices of varieties

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08B25 Products, amalgamated products, and other kinds of limits and colimits [see also 18A30]

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08B26 Subdirect products and subdirect irreducibility

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Wu, Li Yun Double $K_{1,1}$-algebras. (Chinese. English and Chinese summaries)

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— *see also* **Davey, Brian A.**, **97f:06026**

08Cxx Other classes of algebras

08C05 Categories of algebras [see also 18C05]

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08C10 Axiomatic model classes [see also 03Cxx, in particular 03C60]

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Items with secondary classifications in 08C10

Truss, J. K. Betweenness relations and cycle-free partial orders. **97a:06007**

08C15 Quasivarieties

Bergman, Clifford (*with* Romanowska, A. B.) Subquasivarieties of regularized varieties. (English summary) **97k:08007**
Idziak, Katarzyna Quasivarieties of equivalential algebras. (English summary) **97f:08012**
Romanowska, A. B. *see* **Bergman, Clifford**, **97k:08007**

Items with secondary classifications in 08C15

Clark, David M. (*with* Davey, Brian A.) When is a natural duality "good"? (English summary) **97g:08006**
Czelakowski, Janusz (*with* Dziobiak, W.) The parameterized local deduction theorem for quasivarieties of algebras and its application. (English summary) **97g:03040**
Davey, Brian A. *see* **Clark, David M.**, **97g:08006**
Dziobiak, W. *see* **Czelakowski, Janusz**, **97g:03040**
Gorbunov, V. A. [Quasi-]Birkhoff classes and complete homomorphic images of lattices of [quasi-]varieties. (Russian) **97d:08007**
— Reduction theorems for lattices of [quasi-]varieties. (Russian) **97d:08008**

08C99 None of the above, but in this section

Molchanov, V. A. Nonstandard characterization of pseudovarieties. (English summary) **97a:08020**

Items with secondary classifications in 08C99

Bogdanović, Stojan *see* **Ćirić, Miroslav**, **97d:08002**
Ćirić, Miroslav (*with* Bogdanović, Stojan) Posets of $\mathcal{C}$-congruences. (English summary) **97d:08002**
Pin, Jean-Eric (*with* Weil, Pascal) A Reiterman theorem for pseudovarieties of finite first-order structures. (English and French summaries) **97g:03041**
Weil, Pascal *see* **Pin, Jean-Eric**, **97g:03041**

11–XX Number theory

11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Crstici, B. *see* **Mitrinović, Dragoslav S.; et al., 97f:11001**
Mitrinović, Dragoslav S. (*with* Sándor, József; Crstici, B.) ★ Handbook of number theory. (English summary) **97f:11001**
Sándor, József *see* **Mitrinović, Dragoslav S.; et al., 97f:11001**
Satô, Fumihiro A bibliography on the subject of prehomogeneous vector spaces. (Japanese) (*see* **97a:11006**)

Items listed otherwise than by author

Handbook:
Number theory *see* **Mitrinović, Dragoslav S.; et al., 97f:11001**

Items with secondary classifications in 11–00

Ebbinghaus, H.-D. (*with* Hermes, Hans; Hirzebruch, F.; Koecher, M.; Mainzer, Klaus; Neukirch, J.; Prestel, Alexander; Remmert, Reinhold) ★ Numbers. (English summary) **97f:00001**
(Ewing, J. H.) *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Hermes, Hans *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Hirzebruch, F. *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Koecher, M. *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
(Lamotke, K.) *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Mainzer, Klaus *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Neukirch, J. *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
(Orde, H. L. S.) *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Prestel, Alexander *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Remmert, Reinhold *see* **Ebbinghaus, H.-D.; et al., 97f:00001**

11–01 Instructional exposition (textbooks, tutorial papers, etc.)

Burn, Robert P. (*with* Chetwynd, Amanda) ★ A cascade of numbers. **97a:11001**
— ★ A pathway into number theory. (English summary) **97g:11001**
Chetwynd, Amanda *see* **Burn, Robert P., 97a:11001**
Kowol, Gerhard ★ Primzahlen. (German) [Prime numbers] **97i:11001**
LeVeque, William J. ★ Fundamentals of number theory. (English summary) **97a:11002**
Redmond, Don ★ Number theory. (English summary) **97c:11001**

Items with secondary classifications in 11–01

Ashbacher, Charles ★ An introduction to the Smarandache function. **97a:11012**
Edwards, Harold M. ★ Fermat's last theorem. **97g:11028**
Johnston, Bernard L. (*with* Richman, Fred) ★ Numbers and symmetry. (English summary) **97j:00002**
Richman, Fred *see* **Johnston, Bernard L., 97j:00002**
Stillwell, John Number theory as a core mathematical discipline. **97d:00003**
Tenenbaum, Gérald ★ Exercices corrigés de théorie analytique et probabiliste des nombres. (French) [Answers to exercises in analytic and probabilistic number theory] **97h:11001**
Washington, Lawrence C. ★ Introduction to cyclotomic fields. (English summary) **97h:11130**
(Wu, Jie[1]) *see* **Tenenbaum, Gérald, 97h:11001**

11–02 Research exposition (monographs, survey articles)

Cipra, Barry Fermat prover points to next challenges. **97e:11002**
Erdős, Paul[1] Some of my favourite problems in number theory, combinatorics, and geometry. **97e:11003**
— Some problems I presented or planned to present in my short talk. **97m:11001**
Karatsuba, Anatolii Alekseevich ★ Complex analysis in number theory. **97d:11001**
Nathanson, Melvyn B. ★ Additive number theory. (English summary) **97e:11004**
Subbarao, M. V. Some research problems. (*see* **97a:00038**)
Tenenbaum, Gérald ★ Introduction à la théorie analytique et probabiliste des nombres. (French) [Introduction to analytic and probabilistic number theory] **97e:11005a**
— ★ Introduction to analytic and probabilistic number theory. (English summary) **97e:11005b**
— ★ Exercices corrigés de théorie analytique et probabiliste des nombres. (French) [Answers to exercises in analytic and probabilistic number theory] **97h:11001**
(Thomas, C. B.) *see* **Tenenbaum, Gérald, 97e:11005b**
(Wu, Jie[1]) *see* **Tenenbaum, Gérald, 97h:11001**

Items with secondary classifications in 11–02

Erdős, Paul[1] On some of my favourite theorems. (English summary) **97g:00002**
Mullen, Gary L. (*with* Shparlinskiĭ, I. E.) Open problems and conjectures in finite fields. (English summary) **97m:11145**
Pomerance, Carl (*with* Sárközy, András) Combinatorial number theory. **97e:11032**
Sárközy, András *see* **Pomerance, Carl, 97e:11032**
Shparlinskiĭ, I. E. *see* **Mullen, Gary L., 97m:11145**
Washington, Lawrence C. ★ Introduction to cyclotomic fields. (English summary) **97h:11130**

11–03 Historical (must also be assigned at least one classification number from Section 01)

Dumitrescu, Constantin A brief history of the "Smarandache function". (*see* **97j:00027**)
Knapp, Anthony W. Group representations and harmonic analysis from Euler to Langlands. I. **97a:11003**
— Group representations and harmonic analysis. II. **97i:11002**
Mudge, Michael R. A paradoxical mathematician: his function, paradoxist geometry, and class of paradoxes [Florentin Smarandache].
Nart, Enric Arithmetic: at the gates of the Promised Land. (Catalan) **97d:11002**
(Smarandache, Florentin Gh.) *see* **Mudge, Michael R.**

Items listed otherwise than by author

Biography:
Smarandache, Florentin Gh. *see* **Mudge, Michael R.**

Items with secondary classifications in 11–03

Aczel, Amir D. ★ Fermat's last theorem. (English summary) **97m:01006**
Bateman, Paul T. (*with* Diamond, Harold G.) A hundred years of prime numbers. **97m:01036**
(Chebotarëv, Nikolaĭ Grigor'evich) *see* **Stevenhagen, Peter, 97e:11144**
Diamond, Harold G. *see* **Bateman, Paul T., 97m:01036**
Dumitrescu, Constantin A brief history of the "Smarandache function".
Ebbinghaus, H.-D. (*with* Hermes, Hans; Hirzebruch, F.; Koecher, M.; Mainzer, Klaus; Neukirch, J.; Prestel, Alexander; Remmert, Reinhold) ★ Numbers. (English summary) **97f:00001**
Elkenbracht-Huizing, R.-M. Historical background of the number field sieve factoring method. (English summary) **97i:11121**
(Ewing, J. H.) *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Exarchakos, Theodoros G. Babylonian mathematics and Pythagorean triples. (Greek. English and Greek summaries) **97m:01009**
(de Fermat, Pierre) *see* **Noguès, R., 97b:01029**
Hermes, Hans *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Hirzebruch, F. *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Koecher, M. *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
(Kummer, Ernst Eduard) *see* **Terjanian, Guy, 97c:01038**
(Lamotke, K.) *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Lenstra, Hendrik W., Jr. *see* **Stevenhagen, Peter, 97e:11144**
(Levi, Beppo) *see* **Schappacher, Norbert, 97m:01058**
Lévy, Tony L'histoire des nombres amiables: le témoignage des textes hébreux médiévaux. (English and French summaries) [The history of amicable numbers: testimony from medieval Hebrew texts] **97h:01008**
Mainzer, Klaus *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Martinet, Jacques Histoire des Journées Arithmétiques. [History of the Journées Arithmétiques] (*see* **97d:11003**)
Moreno, Carlos Julio Fermat's last theorem: from Fermat to Wiles. **97b:11075**
Neukirch, J. *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Noguès, R. ★ Théorème de Fermat: son histoire. (French) [History of Fermat's theorem] **97b:01029**
(Orde, H. L. S.) *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Prestel, Alexander *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Raghavan, Srinivasacharya The cakravāla method. **97h:01007**
Remmert, Reinhold *see* **Ebbinghaus, H.-D.; et al., 97f:00001**
Schappacher, Norbert (*with* Schoof, René) Beppo Levi and the arithmetic of elliptic curves. **97m:01058**
Schoof, René *see* **Schappacher, Norbert, 97m:01058**
Stevenhagen, Peter (*with* Lenstra, Hendrik W., Jr.) Chebotarëv and his density theorem. **97e:11144**
Terjanian, Guy L'œuvre arithmetique de Kummer. [Kummer's arithmetical works] **97c:01038**
Wußing, Hans Implizite gruppentheoretische Denkformen in den *Disquisitiones arithmeticae* von Carl Friedrich Gauß. [Implicit group-theoretic forms of thought in the *Disquisitiones arithmeticae* of Carl Friedrich Gauss] **97a:01036**

11–06 Proceedings, conferences, collections, etc.

(Bergum, G. E.) *see* **Applications of Fibonacci numbers, 97a:11005**
(Berndt, Bruce C.) *see* **Analytic number theory, 97a:11004** *and* **97c:11001**
(Chudnovsky, D. V.) *see* **Number theory, 97e:11006**
(Chudnovsky, G. V.) *see* **Number theory, 97e:11006**
(Cohen, Henri) *see* **Algorithmic number theory, 97k:11001**
(Cohen, Stephen D.) *see* **Finite fields and applications, 97h:11002**
(Diamond, Harold G.) *see* **Analytic number theory, 97a:11004** *and* **97c:11001**
(Gollmann, Dieter) *see* **Applications of finite fields, 97j:11001**
(Halberstam, Heini) *see* **Analytic number theory, 97a:11004** *and* **97c:11001**
(Hildebrand, Adolf J.) *see* **Analytic number theory, 97a:11004** *and* **97c:11001**
(Horadam, Alwyn F.) *see* **Applications of Fibonacci numbers, 97a:11005**
(Kudryavtsev, L. D.) *see* **Number theory and analysis, 97b:11001**
(Nathanson, Melvyn B.) *see* **Number theory, 97e:11006**
(Niederreiter, Harald) *see* **Finite fields and applications, 97h:11002**
(Pappalardi, Francesco) *see* **Number theory, 97m:11002** *and* **97m:11003**
(Pellikaan, Ruud) *see* **Arithmetic, geometry and coding theory, 97f:11003**
(Perelli, Alberto) *see* **Number theory, 97m:11002** *and* **97m:11003**
(Perret, Marc) *see* **Arithmetic, geometry and coding theory, 97f:11003**
(Philippou, A. N.) *see* **Applications of Fibonacci numbers, 97a:11005**
(Schmidt, Wolfgang M.) *see* **Symposium: Diophantine Problems, 97j:11003**
(Son, Jin-Woo) *see* **Number theory, geometry and related topics, 97b:11002** *and* **Number theory and related topics, 97d:11004**
(Vinogradov, I. M.) *see* **Number theory and analysis, 97b:11001**
(Viola, Carlo) *see* **Number theory, 97m:11002** *and* **97m:11003**
(Vlăduţ, Serge G.) *see* **Arithmetic, geometry and coding theory, 97f:11003**
(Yang, Jae-Hyun) *see* **Number theory, geometry and related topics, 97b:11002** *and* **Number theory and related topics, 97d:11004**

Items listed otherwise than by author

Algebraic number theory and arithmetic geometry ★ Daisûteki seisûron to sûronteki kikagaku. (Japanese) [Algebraic number theory and arithmetic geometry] **97f:11002**

Algorithmic number theory ★ Algorithmic number theory. **97k:11001**
Allerton Park, IL ★ Analytic number theory. Vol. 1. **97a:11004**
— ★ Analytic number theory. Vol. 2. **97c:11001**
Analytic number theory ★ Analytic number theory. Vol. 1. **97a:11004**
— ★ Analytic number theory. Vol. 2. **97c:11001**
Anniversary:
Birth of Vinogradov, I. M. ★ Теория чисел и анализ. (Russian) [Number theory and analysis] **97b:11001**
Applications of Fibonacci numbers ★ Applications of Fibonacci numbers. Vol. 6. **97a:11005**
Applications of finite fields ★ Applications of finite fields. **97j:11001**
Arithmetic, geometry and coding theory ★ Arithmetic, geometry and coding theory. **97f:11003**
Birthday:
Schmidt, Wolfgang M. ★ Symposium on Diophantine Problems. **97j:11003**
Bombay ★ Number theory and related topics. **97j:11002**
Bordeaux ★ Les Dix-huitièmes Journées Arithmétiques. (French) [The Eighteenth Conference on Arithmetic] **97d:11003**
Boulder, CO ★ Symposium on Diophantine Problems. **97j:11003**
Colloquium:
Number Theory and Related Topics ★ Number theory and related topics. **97j:11002**
Conference:
Analytic Number Theory ★ Analytic number theory. Vol. 1. **97a:11004**
— ★ Analytic number theory. Vol. 2. **97c:11001**
Applications of Finite Fields ★ Applications of finite fields. **97j:11001**
Arithmetic ★ Les Dix-huitièmes Journées Arithmétiques. (French) [The Eighteenth Conference on Arithmetic] **97d:11003**
Arithmetic, Geometry and Coding Theory ★ Arithmetic, geometry and coding theory. **97f:11003**
Fibonacci Numbers and their Applications ★ Applications of Fibonacci numbers. Vol. 6. **97a:11005**
Finite Fields and Applications ★ Finite fields and applications. **97h:11002**
Number Theory ★ Теория чисел и анализ. (Russian) [Number theory and analysis] **97b:11001**
Number Theory and Related Topics ★ Number theory and related topics. **97d:11004**
Egham ★ Applications of finite fields. **97j:11001**
Finite fields and applications ★ Finite fields and applications. **97h:11002**
Glasgow ★ Finite fields and applications. **97h:11002**
Iksan City ★ Number theory, geometry and related topics. **97b:11002**
Lecture Notes in Computer Science ★ Algorithmic number theory. **97k:11001**
Luminy ★ Arithmetic, geometry and coding theory. **97f:11003**
Masan ★ Number theory and related topics. **97d:11004**
Meeting:
Number Theory ★ Number theory. I. **97m:11002**
— ★ Number theory. II. **97m:11003**
Moscow ★ Теория чисел и анализ. (Russian) [Number theory and analysis] **97b:11001**
New York ★ Number theory. **97e:11006**
Number theory ★ Number theory. I. **97m:11002**
— ★ Number theory. II. **97m:11003**
— ★ Number theory. **97e:11006**
— ★ Théorie des nombres. Années 1994/95–1995/96. (French) [Number theory. 1994/95–1995/96] **97k:11002**
Number theory and analysis ★ Теория чисел и анализ. (Russian) [Number theory and analysis] **97b:11001**
Number theory and related topics ★ Number theory and related topics. **97j:11002**
— ★ Number theory and related topics. **97d:11004**
Number theory, geometry and related topics ★ Number theory, geometry and related topics. **97b:11002**
Progress in Mathematics ★ Analytic number theory. Vol. 1. **97a:11004**
— ★ Analytic number theory. Vol. 2. **97c:11001**
Pullman, WA ★ Applications of Fibonacci numbers. Vol. 6. **97a:11005**
Pusan ★ Number theory and related topics. **97d:11004**
Rome ★ Number theory. I. **97m:11002**
— ★ Number theory. II. **97m:11003**
Seminar:
Number Theory ★ Number theory. **97e:11006**
Symposium:
Algebraic Number Theory and Arithmetic Geometry ★ Daisūteki seisūron to sūronteki kikagaku. (Japanese) [Algebraic number theory and arithmetic geometry] **97f:11002**
Algorithmic Number Theory ★ Algorithmic number theory. **97k:11001**
Diophantine Problems ★ Symposium on Diophantine Problems. **97j:11003**
Number Theory, Geometry and Related Topics ★ Number theory, geometry and related topics. **97b:11002**
Theory of Prehomogeneous Vector Spaces ★ Gai kinshitsu bekutoru kūkan no kenkyū. [Theory of prehomogeneous vector spaces] **97a:11006**
Talence ★ Algorithmic number theory. **97k:11001**
Théorie des nombres ★ Théorie des nombres. Années 1994/95–1995/96. (French) [Number theory. 1994/95–1995/96] **97k:11002**
Theory of prehomogeneous vector spaces ★ Gai kinshitsu bekutoru kūkan no kenkyū. [Theory of prehomogeneous vector spaces] **97a:11006**

Items with secondary classifications in 11–06

(Axel, Françoise) *see* **Beyond quasicrystals, 97e:00004**
(Erdős, Paul[1]) *see* **Mathematics of Paul Erdős, 97f:00032**
(Golod, E. S.) *see* **Algebraic geometry, 97e:00008**
(Graham, Ronald L.) *see* **Mathematics of Paul Erdős, 97f:00032**
(Gratias, Denis) *see* **Beyond quasicrystals, 97e:00004**
(Hazewinkel, Michiel) *see* **Handbook: Algebra, 97f:00006**
(Maltese, George) *see* **Series of the Mathematical Institute of the University of Münster. Series 3, 97a:00026**
(Manin, Yurii Ivanovich) *see* **Algebraic geometry, 97e:00008**
(Nešetřil, Jaroslav) *see* **Mathematics of Paul Erdős, 97f:00032**
(Quine, J. R.) *see* **Extremal Riemann surfaces, 97g:00020**
(Sarnak, Peter) *see* **Extremal Riemann surfaces, 97g:00020**
(Tyurin, A. N.) *see* **Algebraic geometry, 97e:00008**

Items listed otherwise than by author

Algebraic geometry ★ Algebraic geometry. 4. **97e:00008**
Beyond quasicrystals ★ Beyond quasicrystals. **97e:00004**
Birthday:
Manin, Yurii Ivanovich ★ Algebraic geometry. 4. **97e:00008**
Contemporary Mathematics ★ Extremal Riemann surfaces. **97g:00020**
Extremal Riemann surfaces ★ Extremal Riemann surfaces. **97g:00020**
Handbook:
Algebra ★ Handbook of algebra. Vol. 1. **97f:00006**
Les Houches ★ Beyond quasicrystals. **97e:00004**
Mathematics of Paul Erdős ★ The mathematics of Paul Erdős. I. **97f:00032**
Meeting:
American Mathematical Society ★ Extremal Riemann surfaces. **97g:00020**
Obituary:
Erdős, Paul[1] ★ The mathematics of Paul Erdős. I. **97f:00032**
San Francisco, CA ★ Extremal Riemann surfaces. **97g:00020**
School:
Beyond Quasicrystals ★ Beyond quasicrystals. **97e:00004**
Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 17. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 17] **97a:00026**
Series of the Mathematical Institute of the University of Münster. Series 3 ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 17. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 17] **97a:00026**
Session:
Extremal Riemann Surfaces ★ Extremal Riemann surfaces. **97g:00020**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Chun, Shen Ze GCD and LCM power matrices. **97e:11007**
Ivić, Aleksandar (*with* Mijajlović, Žarko) On Kurepa's problems in number theory. (English summary) **97a:11007**
Mijajlović, Žarko *see* **Ivić, Aleksandar, 97a:11007**
Myerson, Gerry (*with* Sander, J. W.) What the least common multiple divides. II. (English summary) **97k:11003**
Nagaraj, M. (*with* Paramathma Rao, M.) Groups of divisors. (English summary) **97c:11002**
Nesterenko, Yu. V. *see* **Shorey, T. N., 97d:11005**
Paramathma Rao, M. *see* **Nagaraj, M., 97c:11002**
Sander, J. W. *see* **Myerson, Gerry, 97k:11003**
Shorey, T. N. (*with* Nesterenko, Yu. V.) Perfect powers in products of integers from a block of consecutive integers. II. **97d:11005**
Zarzycki, Piotr On multiplicity sequences. **97m:11004**

Items with secondary classifications in 11A05

Ahlswede, Rudolf F. (*with* Khachatryan, L. G.) Sets of integers with pairwise common divisor and a factor from a specified set of primes. **97a:11033**
Baica, Malvina Baica's general Euclidean algorithm (BGEA) and the solution of Fermat's last theorem. (English summary) **97i:11023**
— More explanations about Baica's proof of Fermat's last theorem. (English summary) **97i:11024**
— The Euclidean character of the Fermat's last theorem. (English summary) **97i:11025**
Balasubramanian, Ramachandran (*with* Soundararajan, K.) Maximal sets of integers with distinct divisors. (English summary) **97a:11151**
— (*with* Soundararajan, K.) On a conjecture of R. L. Graham. **97a:11139**
Khachatryan, L. G. *see* **Ahlswede, Rudolf F., 97a:11033**
Kornfeld, Ed GCD properties of an octagon. **97c:11027**
Soundararajan, K. *see* **Balasubramanian, Ramachandran, 97a:11139** *and* **97a:11151**

11A07 Congruences; primitive roots; residue systems

Agoh, Takashi On Fermat and Wilson quotients. **97e:11008**
Chen, Ke Ying Another equivalent form of Wolstenholme's theorem and its generalization. (Chinese. Chinese summary) **97d:11006**
Chen, Xie Xiong *see* **Wang, Ling Li**
Chen, Yong-Gao On m-harmonic sequences. (English summary) **97j:11004**
Cochrane, Todd (*with* Myerson, Gerry) Covering congruences in higher dimensions. (English summary) **97c:11003**
Conway, John H. (*with* Guy, Richard K.; Schneeberger, W. A.; Sloane, N. J. A.) The primary pretenders. **97k:11004**
Crandall, Richard E. (*with* Dilcher, Karl; Pomerance, Carl) A search for Wieferich and Wilson primes. (English summary) **97c:11004**
Dilcher, Karl *see* **Crandall, Richard E.; et al., 97c:11004**
Ernvall, R. (*with* Metsänkylä, T.) On the p-divisibility of Fermat quotients. (English summary) **97i:11003**
Fehér, János *see* **Indlekofer, Karl-Heinz; et al., 97m:11005**
Guy, Richard K. *see* **Conway, John H.; et al., 97k:11004**

Han, Qing² A note on the formula for the number of solutions of the congruence $\alpha x^a \equiv \beta y^b \pmod{p^n}$. (Chinese. English and Chinese summaries) **97e:11009**
Hong, Shao Fang A generalization of Wolstenholme's theorem. (Chinese. English and Chinese summaries) **97f:11004**
Hurd, Spencer P. (*with* McCranie, Judson S.) Quantum factorials. **97a:11008**
Indlekofer, Karl-Heinz (*with* Fehér, János; Stachó, László L.) On sets of uniqueness for completely additive arithmetic functions. (English summary) **97m:11005**
Iskra, Boris Non-congruent numbers with arbitrarily many prime factors congruent to 3 modulo 8. **97h:11003**
Luo, Yong Chao Fermat solutions and theorems on general methods for them. (Chinese. English and Chinese summaries) **97e:11010**
McCranie, Judson S. *see* **Hurd, Spencer P., 97a:11008**
Metsänkylä, T. *see* **Ernvall, R., 97f:11003**
Myerson, Gerry *see* **Cochrane, Todd, 97c:11003**
Pomerance, Carl *see* **Crandall, Richard E.; et al., 97c:11004**
Powell, Corey Bounds for multiplicative cosets over fields of prime order. (English summary) **97f:11005**
Radoux, Christian Some arithmetical properties of Apéry numbers. (English summary) **97c:11005**
Rödseth, Øystein J. On the addition of residue classes mod p. (English summary) **97a:11009**
Schneeberger, W. A. *see* **Conway, John H.; et al., 97k:11004**
Semotyuk, M. V. ★ Обобщенное теоретико-числовое преобразование. (Russian. Russian summary) [A generalized number-theoretic transformation] **97k:11005**
Shen, Yun Fu A recursive formula for the number of distinct solutions to the congruence $\sum_{i=1}^{n} x_i^2 \equiv a \pmod{p}$. (Chinese) **97e:11011**
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Spilker, Jürgen Eine einheitliche Methode zur Behandlung einer linearen Kongruenz mit Nebenbedingungen. (German summary) [A uniform method for the treatment of a linear congruence with side conditions] **97e:11012**
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Wang, Ling Li (*with* Chen, Xie Xiong) Relationships between modulo algebra and ordinary algebra. (Chinese. English and Chinese summaries)
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Cochrane, Todd *see* **Ayyad, Anwar; et al., 97f:11091**
Di Porto, Adina (*with* Filipponi, Piero) Some special triangular numbers, and recurring sequences. **97h:11027**
Filipponi, Piero *see* **Di Porto, Adina, 97h:11027**
Gassko, Irene Stapling and composite coverings of natural numbers. (English summary) **97f:11015**
— Stapled sequences and stapling coverings of natural numbers. (English summary) **97f:11018**
Kovács, Katalin On additive functions satisfying some congruence properties. II. **97d:11010**
Leyendekkers, J. V. (*with* Rybak, J. M.; Shannon, Anthony) Integer class properties associated with an integer matrix. (English summary) **97m:11035**
Mazouz, Abdelhak Analyse p-adique et nombres de Bell à deux variables. [p-adic analysis and bivariate Bell numbers] **97f:11016**
McDaniel, Wayne L. Triangular numbers in the Pell sequence. **97b:11036**
Moree, Pieter The incongruence of consecutive values of polynomials. (English summary) **97d:11044**
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Schmidt, Wolfgang M. (*with* Stewart, C. L.) Congruences, trees, and p-adic integers. (English summary) **97e:11045**
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Smith, Michael Cousins of Smith numbers: Monica and Suzanne sets. **97a:11020**
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Sun, Zhi Wei Covering the integers by arithmetic sequences. II. (English summary) **97c:11011**
Young, Paul Thomas On a class of congruences for Lucas sequences. **97c:11025**
Zannier, Umberto On periodic mod p sequences and G-functions: on a conjecture of Ruzsa. (English summary) **97h:11018**
Zhang, Wen Peng The problem of the probability distribution of the solutions to a family of congruences. (Chinese. English and Chinese summaries) **97e:11081**
Zheng, Zhiyong *see* **Ayyad, Anwar; et al., 97f:11091**

11A15 Power residues, reciprocity

Barnes, F. W. A permutation reciprocity law. **97f:11006**
Chaladus, Stefan An application of Nagell's estimate of the least odd quadratic nonresidue. **97b:11003**
Higuchi, Teiichi *see* **Watanabe, Kimio; et al., 97m:11006**
Kim, Dae-Yeoul *see* **Park, Joong-Soo, 97k:11006**
Merrill, Kathy D. (*with* Walling, Lynne H.) On quadratic reciprocity over function fields. (English summary) **97a:11011**
Miyagawa, Yukitaka *see* **Watanabe, Kimio; et al., 97m:11006**
Park, Joong-Soo (*with* Kim, Dae-Yeoul) An application of the cubic reciprocity law. (English summary) **97k:11006**
Rotkiewicz, A. On Lucas pseudoprimes of the form $ax^2 + bxy + cy^2$. **97d:11008**
Walling, Lynne H. *see* **Merrill, Kathy D., 97a:11011**
Watanabe, Kimio (*with* Miyagawa, Yukitaka; Higuchi, Teiichi) A remark on the analytic proof of the law of biquadratic reciprocity. **97m:11006**

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Bach, Eric (*with* Lukes, Richard F.; Shallit, Jeffrey; Williams, Hugh Cowie) Results and estimates on pseudopowers. (English summary) **97a:11161**
Borsari, I. (*with* Graffi, Sandro; Unguendoli, F.) Ground states for a class of deterministic spin models with glassy behaviour. (English summary) **97d:82023**
Fletcher, Peter (*with* Lindgren, William; Pomerance, Carl) Symmetric and asymmetric primes. (English summary) **97c:11007**
Graffi, Sandro *see* **Borsari, I.; et al., 97d:82023**
Grant, David R. A proof of quintic reciprocity using the arithmetic of $y^2 = x^3 + 1/4$. **97b:11083**
Jakubec, Stanislav Note on the Jacobi sum $J(\chi, \chi)$. **97a:11124**
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Lucheta, Caroline (*with* Miller, Eli; Reiter, Clifford A.) Digraphs from powers modulo p. **97e:05096**
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Meyer, Shawna M. (*with* Sorenson, Jonathan P.) Efficient algorithms for computing the Jacobi symbol (extended abstract). (English summary) **97m:11157**
Miller, Eli *see* **Lucheta, Caroline; et al., 97e:05096**
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Unguendoli, F. *see* **Borsari, I.; et al., 97d:82023**
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Wójcik, J. An extension of the Eisenstein reciprocity law. (English summary) **97a:11171**
— Reciprocity law for powers of cyclotomic integers. (English summary) **97a:11172**

11A25 Arithmetic functions; related numbers; inversion formulas

Andrei, M. (*with* Dumitrescu, Constantin; Seleacu, Vasile; Tutescu, Lucian; Zafir, St.) Some remarks on the Smarandache function.
— (*with* Dumitrescu, Constantin; Rădescu, E.; Rădescu, N.) Some considerations concerning the summatory function associated to Smarandache function.
— (*with* Bălăcenoiu, Ion; Dumitrescu, Constantin; Rădescu, E.; Rădescu, N.; Seleacu, Vasile) A linear combination with Smarandache function to obtain the identity. (English summary)
Ashbacher, Charles ★ An introduction to the Smarandache function. **97a:11012**
— A note on the Smarandache near-to-primorial function.
Atanassov, Krassimir Todorov Three hypotheses on φ and σ functions.
— Remark on φ and ψ functions.
— Two extremal problems.
— Four extremal problems.
— New integer functions, related to φ and σ functions. V.
— Remark on set F_A.
Atanassova, Vassja Kr. One property of ψ-function.
Bălăcenoiu, Ion Smarandache numerical functions. (English summary)
— (*with* Seleacu, Vasile) On three numerical functions.
— The monotony of Smarandache functions of first kind.
— *see also* **Andrei, M.; et al.**
Bege, Antal Fixed points of certain divisor function.
Bezivin, Jean-Paul Fonctions multiplicatives et équations différentielles. (English and French summaries) [Multiplicative functions and differential equations] **97d:11009**
Borwein, David (*with* Borwein, Jonathan M.; Borwein, Peter; Girgensohn, Roland) Giuga's conjecture on primality. **97b:11004**
Borwein, Jonathan M. *see* **Borwein, David; et al., 97b:11004**
Borwein, Peter *see* **Borwein, David; et al., 97b:11004**
Bukor, Jozef (*with* Tóth, János T.) Estimation of the mean value of some arithmetical functions. **97a:11013**
Burton, Emil (*with* Cojocaru, Ion; Cojocaru, Sorin; Dumitrescu, Constantin) Some convergence problems involving the Smarandache function. (English summary)
Buschman, R. G. Number-theoretic functions from partial products. (English summary) **97a:11014**
Cao, Fen Jin On the inequality $s\prod_1^n(P_i - 1) \geq \prod_1^n P_i$. (Chinese. English and Chinese summaries)
Cohen, Graeme L. (*with* te Riele, Herman J. J.) Iterating the sum-of-divisors function. (English summary) **97m:11007**
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— (*with* Seleacu, Vasile) ★ The Smarandache function. **97f:11004**
— (*with* Rocsoreanu, C.) On the calculus of Smarandache function.
— *see also* **Andrei, M.; et al.; Rodescu, E.; et al.; Andrei, M.; et al.; Rădescu, E.; et al.; Andrei, M.; et al.** *and* **Burton, Emil; et al.**
Girgensohn, Roland *see* **Borwein, David; et al., 97b:11004**
Haukkanen, Pentti On a binomial convolution of arithmetical functions. (English summary) **97m:11008**
— Matrices associated with a class of arithmetical identities. **97k:11007**
— (*with* Wang, Jun[1]) A generalization of Menon's identity with respect to a set of polynomials. (English summary) **97g:11002**
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— On Radu's problem.
Kar, Kadambini (*with* Somayajulu, B. S. K. R.) Some inequalities involving arithmetical functions.

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— Introducing the Smarandache-Kurepa and Smarandache-Wagstaff functions.
Mullin, Albert A. On the Smarandache function and the fixed-point theory of numbers.
Newman, Donald J. Euler's φ function on arithmetic progressions. **97m:11010**
Nicolescu, Mariana *see* **Popescu, Marcela**
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— Multiplicative functions satisfying the equation $f(m^2+n^2)=f(m^2)+f(n^2)$. (English summary) **97m:11011**
Popescu, Marcela (*with* Seleacu, Vasile) About the Smarandache complementary prime function.
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te Riele, Herman J. J. *see* **Cohen, Graeme L., 97m:11007**
Rocsoreanu, C. *see* **Dumitrescu, Constantin**
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Sándor, József On certain inequalities for arithmetic function.
— On certain inequalities involving Dedekind's arithmetical function.
— On certain inequalities involving the Smarandache function. **97h:11004**
Seleacu, Vasile (*with* Zanfir, Stefan) The functions $\theta_s(x)$ and $\tilde{\theta}_s(x)$.
— (*with* Zanfir, Stefan) The function $\Pi_S(x)$.
— *see also* **Dumitrescu, Constantin, 97i:11004**; **Andrei, M.; et al.**; **Popescu, Marcela**; **Bălăcenoiu, Ion** *and* **Andrei, M.; et al.**
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Somayajulu, B. S. K. R. *see* **Kar, Kadambini**
Tang, Yuan Sheng A reverse problem on arithmetic functions. (English summary) **97c:11006**
Tóth, János T. *see* **Bukor, Jozef, 97a:11013**
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Vassilev-Missana, Mladen V. The numbers which cannot be values of Euler's function φ. **97m:11012**
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Yan, S. Y. Errata to: "68 new large amicable pairs" [Comput. Math. Appl. **28** (1994), no. 5, 71–74; MR 96a:11008]. (English summary) **97h:11005**
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— (*with* Mihov, S.; Peretti, Aldo) Computer calculus related to some problems in number theory. IV.
— Remarks on prime numbers. **97j:11005**
Chen, Nan Xian (*with* Chen, Zhao Dou; Shen, Ya Nan) Rings of Gauss and Eisenstein's integers and their physical applications. (English summary) **97d:11195**
Chen, Zhao Dou *see* **Chen, Nan Xian; et al., 97d:11195**
De Koninck, Jean-Marie (*with* Grah, Jacques) Moyennes sur certains ensembles de diviseurs d'un entier. (English summary) [Average values in certain sets of divisors of an integer] **97b:11117**
Estrada, Ricardo Dirichlet convolution inverses and solution of integral equations. (English summary) **97j:45002**
Feng, Hong Generalized Euler functions over finite fields. (Chinese. English and Chinese summaries) **97a:11200**
Grah, Jacques *see* **De Koninck, Jean-Marie, 97b:11117**
Mihov, S. *see* **Atanassov, Krassimir Todorov; et al.**
Peretti, Aldo *see* **Atanassov, Krassimir Todorov; et al.**
Shannon, Anthony *see* **Atanassov, Krassimir Todorov; et al.**
Shao, Pin Zong *see* **Wirsing, Eduard; et al., 97a:11158**
Shen, Ya Nan *see* **Chen, Nan Xian; et al., 97d:11195**
Spilker, Jürgen Eine einheitliche Methode zur Behandlung einer linearen Kongruenz mit Nebenbedingungen. (German summary) [A uniform method for the treatment of a linear congruence with side conditions] **97e:11012**
Tang, Yuan Sheng *see* **Wirsing, Eduard; et al., 97a:11158**
Tóth, László The unitary analogue of Pillai's arithmetical function. II. (English summary) **97g:11104**
Wirsing, Eduard (*with* Tang, Yuan Sheng; Shao, Pin Zong) On a conjecture of Kátai for additive functions. **97a:11158**
Zarzycki, Piotr On multiplicity sequences. **97m:11004**

11A41 Primes

Atanassov, Krassimir Todorov Remarks on prime numbers. II.
— Remarks on prime numbers. **97j:11005**
Fletcher, Peter (*with* Lindgren, William; Pomerance, Carl) Symmetric and asymmetric primes. (English summary) **97c:11007**
Lindgren, William *see* **Fletcher, Peter; et al., 97c:11007**
Marko, František A note on pseudoprimes with respect to abelian linear recurring sequence. (English summary) **97k:11009**
Nicely, Thomas R. Enumeration to 10^{14} of the twin primes and Brun's constant. (English summary) **97e:11014**
Pomerance, Carl *see* **Fletcher, Peter; et al., 97c:11007**
Roitman, Moshe On Zsigmondy primes. (English summary) **97i:11005**
Vassilev-Missana, Mladen V. Note on "extraordinary primes". **97g:11004**
Zhang, Gui Wen On twins, triplets and n-tuplets of prime numbers. (English and Chinese summaries) **97e:11015**

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Blessenohl, Dieter *see* **Bil, Robert, 97i:11098**
Bruckman, Paul S. Some interesting subsequences of the Fibonacci and Lucas pseudoprimes. **97e:11022**
Forbes, Anthony D. A large pair of twin primes. (English summary) **97c:11111**
Fouvry, Etienne (*with* Mauduit, Christian) Sommes des chiffres et nombres presque premiers. [Sums of digits and almost primes] **97k:11029**
Kowol, Gerhard ★ Primzahlen. (German) [Prime numbers] **97i:11001**
Mauduit, Christian *see* **Fouvry, Etienne, 97k:11029**

11A51 Factorization; primality

Arnault, F. The Rabin-Monier theorem for Lucas pseudoprimes. (English summary) **97f:11009**
Atanassov, Krassimir Todorov *see* **Danchev, Stefan S., 97m:11013**
Danchev, Stefan S. (*with* Atanassov, Krassimir Todorov) A generalization of one Erdős's problem. **97m:11013**
Dubner, Harvey Carmichael numbers and Egyptian fractions. (English summary) **97d:11011**
Eke, B. G. Coprimes in blocks of successive integers. (English summary) **97a:11016**
Křížek, Michal On Fermat numbers. (Czech) **97b:11005**
McKee, James Turning Euler's factoring method into a factoring algorithm. (English summary) **97f:11010**
Quesada, A. R. (*with* Van Pelt, B.) A note on the extensions of Eratosthenes' sieve. (English summary) **97e:11016**
Van Pelt, B. *see* **Quesada, A. R., 97e:11016**

Items with secondary classifications in 11A51

Forbes, Anthony D. A large pair of twin primes. (English summary) **97c:11111**
Gerlach, Horst W. On liars and witnesses in the strong pseudoprimality test. (English summary) **97c:11112**
Pomerance, Carl The role of smooth numbers in number-theoretic algorithms. **97m:11156**
Szekeres, George Higher order pseudoprimes in primality testing. (English summary) **97c:11113**

11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

Anderson, Peter G. Advances in linear pixel shuffling. **97i:11006**
Konyagin, Sergei V. (*with* Moshchevitin, N. G.) Representation of rational numbers by finite continued fractions. (Russian) **97h:11006**
Lewittes, Joseph Quadratic irrationals and continued fractions. (English summary) **97m:11014**
Moshchevitin, N. G. *see* **Konyagin, Sergei V., 97h:11006**
van der Poorten, Alfred J. Continued fractions of formal power series. **97a:11017**
— Continued fraction expansions of values of the exponential function and related fun with continued fractions. (English summary) **97f:11011**

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Allouche, Jean-Paul (*with* Lubiw, Anna; Mendès France, Michel; van der Poorten, Alfred J.; Shallit, Jeffrey) Convergents of folded continued fractions. **97g:11077**
Altindis, Hüseyin (*with* Atasoy, Muzaffer) The linear Diophantine equation $ax+by+cz=e$ in $\mathbf{Q}(\sqrt{5})$. (English summary) **97h:11026**
Atasoy, Muzaffer *see* **Altindis, Hüseyin, 97h:11026**
Berndt, Bruce C. (*with* Chan, Heng Huat) Some values for the Rogers-Ramanujan continued fraction. (English summary) **97a:33043**
Burger, Edward B. (*with* Kollett, Christopher S.) On the structure of quadratic irrationals associated with generalized Fibonacci and Lucas numbers. **97f:11014**
Chan, Heng Huat *see* **Berndt, Bruce C., 97a:33043**
Grisel, Guillaume Longueur de la fraction continue des puissances d'une fraction rationnelle. (English and French summaries) [Length of the continued fraction of the powers of a rational fraction] **97b:11094**
Guivarc'h, Yves (*with* Le Jan, Yves) Note rectificative: "Asymptotic winding of the geodesic flow on modular surfaces and continued fractions" [Ann. Sci. École Norm. Sup. (4) **26** (1993), no. 1, 23–50; MR 94a:58157]. **97i:58136**
Kaplan, Pierre (*with* Mimura, Yoshio) Développement en fraction continue à l'entier le plus proche, idéaux α-réduits et un problème d'Eisenstein. [Nearest-integer continued fraction expansion, α-reduced ideals and a problem of Eisenstein] **97e:11134**
Kollett, Christopher S. *see* **Burger, Edward B., 97f:11014**
Korkina, E. I. The simplest 2-dimensional continued fraction. **97j:11032**
Kraaikamp, Cornelis (*with* Lopes, Artur) The theta group and the continued fraction expansion with even partial quotients. (English summary) **97g:58135**
Le Jan, Yves *see* **Guivarc'h, Yves, 97i:58136**
Lopes, Artur *see* **Kraaikamp, Cornelis, 97g:58135**

Lubiw, Anna *see* **Allouche, Jean-Paul; et al., 97g:11077**
Mendès France, Michel *see* **Allouche, Jean-Paul; et al., 97g:11077**
Mimura, Yoshio *see* **Kaplan, Pierre, 97e:11134**
Mollin, Richard A. ★ Quadratics. **97e:11135**
van der Poorten, Alfred J. *see* **Allouche, Jean-Paul; et al., 97g:11077**
Shallit, Jeffrey *see* **Allouche, Jean-Paul; et al., 97g:11077**
Takeuchi, Yu Real number representation. (Spanish) **97a:11022**
Thakur, Dinesh S. Exponential and continued fractions. (English summary) **97b:11145**
Zhang, Xian Ke Equations in real quadratic fields and semisimple and minimal continued fractions. (Chinese) **97a:11047**

11A63 Radix representation; digital problems {For metric results, see 11K16.}

Blecksmith, Richard (*with* Laud, Purushottam W.) Some exact number theory computations via probability mechanisms. **97d:11012**
Bračič, Branko Number systems with complex bases. (Slovenian. English and Slovenian summaries)
Cai, Tianxin On 2-Niven numbers and 3-Niven numbers. **97a:11018**
— On k-self-numbers and universal generated numbers. **97c:11008**
Gilbert, William J. The division algorithm in complex bases. (English summary) **97a:11019**
Grabner, Peter J. (*with* Tichy, Robert F.; Nemes, István; Pethő, Attila) On the least significant digit of Zeckendorf expansions. **97b:11006**
Laud, Purushottam W. *see* **Blecksmith, Richard, 97d:11012**
Nemes, István *see* **Grabner, Peter J.; et al., 97b:11006**
Pethő, Attila *see* **Grabner, Peter J.; et al., 97b:11006**
Smith, Michael Cousins of Smith numbers: Monica and Suzanne sets. **97a:11020**
Tenenbaum, Gérald Sur la non-dérivabilité de fonctions périodiques associées à certaines formules sommatoires. (French summary) [Nondifferentiability of periodic functions associated with certain summation formulas] **97k:11010**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97b:11006**
Vasantha Kandasamy, W. B. On pseudo-Niven numbers.
Wilson, Brad Construction of small consecutive Niven numbers. **97a:11021**
Yamashita, Koji A problem on palindromic numbers. (English summary) **97m:11015**
Zhou, Chizhong On the Kaprekar problem in $S(2, r)$. (English summary) **97f:11012**

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Barat, Guy Sur un procédé universel d'extraction. (French summary) [A universal extraction procedure] **97a:11036**
Dumont, Jean Marie (*with* Thomas, Alain) Gaussian asymptotic properties of the sum-of-digits function. (English summary) **97m:11106**
Ito, Yuji Direct sum decomposition of the integers. **97b:11009**
Lagarias, Jeffrey C. (*with* Wang, Yang[3]) Self-affine tiles in $\mathbb{R}^n$. (English summary) **97d:52034**
Larcher, Gerhard On the number of odd binomial coefficients. **97e:11026**
Loraud, Nathalie β-shift, systèmes de numération et automates. (English summary) [β-shift, numeration systems and automata] **97a:11037**
Thomas, Alain *see* **Dumont, Jean Marie, 97m:11106**
Volčič, Aljoša The first digit problem and scale-invariance. (English summary) **97d:11114**
Wang, Yang[3] *see* **Lagarias, Jeffrey C., 97d:52034**

11A67 Other representations

Lang, Wolfdieter The Wythoff and the Zeckendorf representations of numbers are equivalent. **97e:11017**
Takeuchi, Yu Real number representation. (Spanish) **97a:11022**
Terr, David C. Fibonacci expansions and "F-adic" integers. **97e:11018**
Vantieghem, E. On sequences related to expansions of real numbers. **97d:11013**

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Dumont, Jean Marie (*with* Kamae, Teturo; Takahashi, Satoshi) Minimal cocycles with the scaling property and substitutions. (English summary) **97j:58132**
Freitag, Herta T. (*with* Phillips, George M.) On the Zeckendorf form of F_{kn}/F_n. **97h:11010**
Frougny, Christiane (*with* Solomyak, Boris) On representation of integers in linear numeration systems. (English summary) **97f:11063**
Horadam, Alwyn F. Minmax sequences for Pell numbers. **97b:11017**
Kamae, Teturo *see* **Dumont, Jean Marie; et al., 97j:58132**
Phillips, George M. *see* **Freitag, Herta T., 97h:11010**
Solomyak, Boris *see* **Frougny, Christiane, 97f:11063**
Takahashi, Satoshi *see* **Dumont, Jean Marie; et al., 97j:58132**

11A99 None of the above, but in this section

Chen, Yong-Gao On a paper of Schinzel and Szekeres [Acta Sci. Math. (Szeged) **20** (1959), 221–229; MR **22** #3710]. (English summary) **97k:11011**
Darbo, G. (*with* Zannier, Umberto) "Good" numbers. (Italian. English and Italian summaries) **97k:11012**
Forslund, Robert R. A logical alternative to the existing positional number system. (English summary) **97b:11007**
Zannier, Umberto *see* **Darbo, G., 97k:11012**

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Glasby, S. P. Generators for the group of units of Z_n. **97a:11199**

11Bxx Sequences and sets

11B05 Density, gaps, topology

Ahlswede, Rudolf F. (*with* Khachatryan, L. G.) Density inequalities for sets of multiples. (English summary) **97d:11014**
Bergelson, Vitaly (*with* Erdős, Paul[1]; Hindman, Neil; Łuczak, Tomasz) Dense difference sets and their combinatorial structure. (English summary) **97i:11007**
Boros, Zoltán Sequences of connected spectrum and the Vilenkin group. (English summary) **97a:11023**
Brown, Brienne E. (*with* Gordon, Daniel M.) On sequences without geometric progressions. (English summary) **97a:11024**
Bukor, Jozef (*with* Tóth, János T.) On accumulation points of ratio sets of positive integers. **97c:11009**
Calkin, Neil J. (*with* Granville, Andrew) On the number of co-prime-free sets. (English summary) **97j:11006**
— (*with* Taylor, Angela C.) Counting sets of integers, no k of which sum to another. (English summary) **97d:11015**
Erdős, Paul[1] *see* **Bergelson, Vitaly; et al., 97i:11007**
Fuchs, Aimé (*with* Letta, Giorgio) Le problème du premier chiffre décimal pour les nombres premiers. (French summary) [The first digit problem for primes] **97f:11013**
Gordon, Daniel M. *see* **Brown, Brienne E., 97a:11024**
Granville, Andrew *see* **Calkin, Neil J., 97j:11006**
Hindman, Neil *see* **Bergelson, Vitaly; et al., 97i:11007**
Khachatryan, L. G. *see* **Ahlswede, Rudolf F., 97d:11014**
Letta, Giorgio *see* **Fuchs, Aimé, 97f:11013**
Łuczak, Tomasz *see* **Bergelson, Vitaly; et al., 97i:11007**
Starni, Paolo Answers to two questions concerning quotients of primes. **97a:11025**
Taylor, Angela C. *see* **Calkin, Neil J., 97d:11015**
Tenenbaum, Gérald On block Behrend sequences. **97b:11008**
Tóth, János T. *see* **Bukor, Jozef, 97c:11009**
Vaidya, A. M. Schnirelmann density of the sequence $[\alpha n]$. (English summary) **97g:11005**

Items with secondary classifications in 11B05

Bergelson, Vitaly (*with* McCutcheon, Randall) Uniformity in the polynomial Szemerédi theorem. **97j:28034**
Brown, Tom C. (*with* Hare, Donovan R.) Arithmetic progressions in sequences with bounded gaps. (English summary) **97m:11018**
Erdős, Paul[1] (*with* Sárközy, András; Sós, V. T.) On product representations of powers. I. (English summary) **97a:11145**
Hare, Donovan R. *see* **Brown, Tom C., 97m:11018**
Hegyvári, Norbert Complete sequences in $\mathbb{N}^2$. (English summary) **97g:11006**
Lev, Vsevolod F. Optimal representations by sumsets and subset sums. (English summary) **97k:11015**
McCutcheon, Randall *see* **Bergelson, Vitaly, 97j:28034**
Sárközy, András *see* **Erdős, Paul[1]; et al., 97a:11145**
Sós, V. T. *see* **Erdős, Paul[1]; et al., 97a:11145**

11B13 Additive bases [see also 05B10]

Bae, Jaegug On subset-sum-distinct sequences. (English summary) **97d:11016**
(Erdős, Paul[1]) *see* **Graham, Ronald L., 97m:11016**
Graham, Ronald L. A remark on a paper of P. Erdős and M. B. Nathanson: "Partitions of bases into disjoint unions of bases" [J. Number Theory **29** (1988), no. 1, 1–9, MR 89f:11025]. **97m:11016**
Hamidoune, Yahya Ould On weighted sequence sums. (English summary) **97a:11026**
Hegyvári, Norbert Complete sequences in $\mathbb{N}^2$. (English summary) **97g:11006**
Ito, Yuji Direct sum decomposition of the integers. **97b:11009**
Jia, Xing-De Minimal bases and g-adic representations of integers. **97k:11013**
Lev, Vsevolod F. Representation of elements of a sequence by sumsets. (English summary) **97m:11017**
Nathanson, Melvyn B. (*with* Sárközy, András) Metric theorems on minimal bases and maximal nonbases. **97k:11014**
— Ballot numbers, alternating products, and the Erdős-Heilbronn conjecture. **97i:11008**
— On sums and products of integers. (English summary) **97e:11010**
— *see also* **Graham, Ronald L., 97m:11016**
Rødseth, Øystein J. Progression bases for finite cyclic groups. (English summary) **97i:11009**
Ruzsa, Imre Z. An asymptotically exact additive completion. **97e:11019**
Sárközy, András *see* **Nathanson, Melvyn B., 97k:11014**
Sárvári, Cs. On integervalued generalized q-additive solutions of linear recursions. (English summary) **97e:11020**
Stanchescu, Yonutz On addition of two distinct sets of integers. **97b:11010**

Items with secondary classifications in 11B13

Calkin, Neil J. (*with* Taylor, Angela C.) Counting sets of integers, no k of which sum to another. (English summary) **97d:11015**
Landreau, Bernard Étude probabiliste des sommes de s puissances s-ièmes. (English and French summaries) [Probabilistic study of sums of s sth powers] **97a:11163**
Lev, Vsevolod F. On the extremal aspect of the Frobenius problem. (English summary) **97d:11045**
Nathanson, Melvyn B. ★ Additive number theory. (English summary) **97e:11004**
Pomerance, Carl (*with* Sárközy, András) Combinatorial number theory. **97e:11032**
Sárközy, András *see* **Pomerance, Carl, 97e:11032**
Taylor, Angela C. *see* **Calkin, Neil J., 97d:11015**
Tenenbaum, Gérald Sur la non-dérivabilité de fonctions périodiques associées à certaines formules sommatoires. (French summary) [Nondifferentiability of periodic functions associated with certain summation formulas] **97k:11010**

11B25 Arithmetic progressions [see also 11N13]

Brown, Tom C. (*with* Hare, Donovan R.) Arithmetic progressions in sequences with bounded gaps. (English summary) **97m:11018**

Hare, Donovan R. *see* **Brown, Tom C., 97m:11018**
Kohayakawa, Yoshiharu (*with* Łuczak, Tomasz; Rödl, Vojtěch) Arithmetic progressions of length three in subsets of a random set. **97b:11011**
Lev, Vsevolod F. Optimal representations by sumsets and subset sums. (English summary) **97k:11015**
Łuczak, Tomasz *see* **Kohayakawa, Yoshiharu; et al., 97b:11011**
Rödl, Vojtěch *see* **Kohayakawa, Yoshiharu; et al., 97b:11011**
Rotkiewicz, A. On the theorem of Wójcik. **97i:11010**
Shorey, T. N. (*with* Tijdeman, R.) Some methods of Erdős applied to finite arithmetic progressions. (English summary) **97h:11007**
Sun, Zhi Wei Covering the integers by arithmetic sequences. II. (English summary) **97c:11011**
Tijdeman, R. *see* **Shorey, T. N., 97h:11007**
Xiao, Guo Neng An invariant of higher-order arithmetic progressions. (Chinese. English and Chinese summaries) **97g:11007**

Items with secondary classifications in 11B25

Bialostocki, Arie (*with* Lefmann, Hanno; Meerdink, Terry) On the degree of regularity of some equations. (English summary) **97f:05188**
Brown, Tom C. (*with* Landman, Bruce M.) The Ramsey property for collections of sequences not containing all arithmetic progressions. (English summary) **97e:05193**
Chen, Yong-Gao On m-harmonic sequences. (English summary) **97j:11004**
Chung, Fan R. K. (*with* Goldwasser, John L.) Maximum subsets of $(0, 1]$ with no solutions to $x + y = kz$. (English summary) **97e:11031**
Cochrane, Todd (*with* Myerson, Gerry) Covering congruences in higher dimensions. (English summary) **97c:11003**
Furstenberg, H. A polynomial Szemerédi theorem. (English summary) **97e:28013**
Goldwasser, John L. *see* **Chung, Fan R. K., 97e:11031**
Konyagin, Sergei V. (*with* Moshchevitin, N. G.) Representation of rational numbers by finite continued fractions. (Russian) **97h:11006**
Landman, Bruce M. *see* **Brown, Tom C., 97e:05193**
Lefmann, Hanno *see* **Bialostocki, Arie; et al., 97f:05188**
Meerdink, Terry *see* **Bialostocki, Arie; et al., 97f:05188**
Moshchevitin, N. G. *see* **Konyagin, Sergei V., 97h:11006**
Myerson, Gerry *see* **Cochrane, Todd, 97c:11003**

11B34 Representation functions

Chen, Qing Hua² (*with* Liu, Yu Ji) A result on the Frobenius problem. (Chinese. English and Chinese summaries) **97k:11016**
Hegyvári, Norbert On representation problems in the additive number theory. **97e:11021**
Liu, Yu Ji *see* **Chen, Qing Hua², 97k:11016**
Newman, Donald J. A splitting problem. (English summary) **97k:11017**
Sárközy, András (*with* Sós, V. T.) On additive representation functions. **97m:11019**
Sós, V. T. *see* **Sárközy, András, 97m:11019**

Items with secondary classifications in 11B34

Filipponi, Piero (*with* Freitag, Herta T.) The Zeckendorf decomposition of certain classes of integers. **97g:11012**
Freitag, Herta T. *see* **Filipponi, Piero, 97g:11012**
Jia, Xing-De Minimal bases and g-adic representations of integers. **97k:11013**
Landreau, Bernard Étude probabiliste des sommes de s puissances s-ièmes. (English and French summaries) [Probabilistic study of sums of s sth powers] **97a:11163**

11B37 Recurrences {For applications to special functions, see 33–XX.}

Al-Zaid, Hassan (*with* Singh, Surjeet) Invariance of recurrence sequences under a Galois group. (English summary) **97c:11012**
Ando, Shiro On a system of sequences defined by a recurrence relation. **97b:11012**
Ballot, Christian Group structure and maximal division for cubic recursions with a double root. (English summary) **97k:11018**
Bavencoffe, E. (*with* Bezivin, Jean-Paul) Une famille remarquable de suites récurrentes linéaires. (English summary) [A remarkable family of linear recurrent sequences] **97a:11027**
Bezivin, Jean-Paul *see* **Bavencoffe, E., 97a:11027**
Cerruti, Umberto (*with* Vaccarino, Francesco) Matrices, recurrent sequences and arithmetic. **97i:11011**
— (*with* Vaccarino, Francesco) Vector linear recurrence sequences in commutative rings. **97i:11012**
Chen, Xi Geng *see* **Le, Mao Hua, 97h:11008**
Cook, Charles K. *see* **Hendel, Russell Jay, 97d:11018**
Gourdon, Xavier (*with* Salvy, Bruno) Effective asymptotics of linear recurrences with rational coefficients. (English summary) **97c:11013**
Guy, Richard K. (*with* Moser, William O. J.) Numbers of subsequences without isolated odd members. **97d:11017**
Harne, Sanjay K. Congruence relations for kth-order linear recursive sequences. (English summary) **97a:11028**
He, Ming Feng *see* **Yu, Hong Quan; et al., 97c:11016**
Hendel, Russell Jay (*with* Cook, Charles K.) Recursive properties of trigonometric products. **97d:11018**
Horadam, Alwyn F. A synthesis of certain polynomial sequences. **97g:11008**
— Extension of a synthesis for a class of polynomial sequences. **97c:11014**
Isogawa, Satoru *see* **Motoda, Yasuo, 97h:11009**
Jennings, Derek Counting sets of integers with various summation properties. **97d:11019**
Kubo, Tal (*with* Vakil, Ravi) On Conway's recursive sequence. (English summary) **97c:11015**
Lahr, Joseph Products and quotients of difference equations. **97d:11020**
Le, Mao Hua (*with* Chen, Xi Geng) The Motzkin-Schröder sequence. (Chinese) **97h:11008**
Liang, Chuan Guang *see* **Yu, Hong Quan; et al., 97c:11016**
Melham, R. S. (*with* Shannon, Anthony) On reciprocal sums of second order sequences. **97d:11021**
Moser, William O. J. *see* **Guy, Richard K., 97d:11017**
Motoda, Yasuo (*with* Isogawa, Satoru) On the divisibility properties of second order recurrences. II. (English summary) **97h:11009**
Myerson, Gerry (*with* van der Poorten, Alfred J.) Some problems concerning recurrence sequences. **97a:11029**
Oberschelp, Walter Solving linear recurrences from differential equations in the exponential manner and vice versa. **97d:11022**
Peter, Manfred Rekurrente zahlentheoretische Funktionen in mehreren Variablen. (English summary) [Recurrent number-theoretic functions in several variables] **97k:11019**
van der Poorten, Alfred J. (*with* Shparlinskiĭ, I. E.) On sequences of polynomials defined by certain recurrence relations. (English summary) **97j:11007**
— (*with* Shparlinskiĭ, I. E.) On linear recurrence sequences with polynomial coefficients. **97b:11013**
— *see also* **Myerson, Gerry, 97a:11029**
Rabinowitz, Stanley Algorithmic manipulation of third-order linear recurrences. **97g:11009**
Salvy, Bruno *see* **Gourdon, Xavier, 97c:11013**
Shannon, Anthony *see* **Melham, R. S., 97d:11021**
Shparlinskiĭ, I. E. *see* **van der Poorten, Alfred J., 97b:11013** *and* **97j:11007**
Singh, Surjeet *see* **Al-Zaid, Hassan, 97c:11012**
Udrea, Gheorghe A note on the sequence $(W_n)_{n\geq 0}$ of A. F. Horadam. **97b:11014**
Vaccarino, Francesco *see* **Cerruti, Umberto, 97i:11011** *and* **97i:11012**
Vakil, Ravi *see* **Kubo, Tal, 97c:11015**
Vsemirnov, M. A. Diophantine representations of linear recurrent sequences. I. (Russian. Russian summary) **97b:11015**
Yu, Hong Quan (*with* Liang, Chuan Guang; He, Ming Feng) Some identities for linear recurrence sequences of second order. II. (Chinese. English and Chinese summaries) **97c:11016**

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Carlip, Walter (*with* Jacobson, Eliot) Unbounded stability of two-term recurrence sequences modulo 2^k. **97b:11021**
— (*with* Jacobson, Eliot) A criterion for stability of two-term recurrence sequences modulo 2^k. (English summary) **97h:11012**
Cohn, J. H. E. Perfect Pell powers. **97b:11047**
Dujella, Andrej Generalized Fibonacci numbers and the problem of Diophantus. **97c:11018**
Eke, B. G. Coprimes in blocks of successive integers. (English summary) **97a:11016**
Fu, Qing Xiang *see* **Wang, Xiao Dong¹, 97k:68085**
Grabner, Peter J. (*with* Tichy, Robert F.; Winkler, Reinhard) On the stability of the quotients of successive terms of linear recurring sequences. (English summary) **97b:11099**
— (*with* Kiss, Péter; Tichy, Robert F.) Diophantine approximation in terms of linear recurrent sequences. (English summary) **97h:11085**
Harborth, Heiko (*with* Maasberg, Silke) Rado numbers for homogeneous second order linear recurrences—degree of partition regularity. **97f:05002**
Horadam, Alwyn F. Minmax sequences for Pell numbers. **97b:11017**
— Polynomials associated with generalized Morgan-Voyce polynomials. **97d:11028**
Jacobson, Eliot *see* **Carlip, Walter, 97b:11021** *and* **97h:11012**
Kiss, Péter *see* **Grabner, Peter J.; et al., 97h:11085**
Lucht, Lutz G. Recurrent and almost-periodic sequences. (English summary) **97k:11116**
Maasberg, Silke *see* **Harborth, Heiko, 97f:05002**
Marko, František A note on pseudoprimes with respect to abelian linear recurring sequence. (English summary) **97k:11009**
Matthews, K. R. Minimal multipliers for consecutive Fibonacci numbers. **97d:11030**
Nemes, István (*with* Petkovšek, Marko) RComp: A Mathematica package for computing with recursive sequences. (English summary) **97j:11066**
Petkovšek, Marko *see* **Nemes, István, 97j:11066**
Rotkiewicz, A. On Lucas pseudoprimes of the form $ax^2 + bxy + cy^2$. **97d:11008**
Sárvári, Cs. On integervalued generalized q-additive solutions of linear recursions. (English summary) **97e:11020**
Schlickewei, Hans Peter Multiplicities of recurrence sequences. **97g:11031**
Shiu, P. On a family of Diophantine difference equations. (English summary) **97b:11031**
Takeuchi, Yu Real number representation. (Spanish) **97a:11022**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97b:11099** *and* **97h:11085**
Wang, Xiao Dong¹ (*with* Fu, Qing Xiang) A frame for general divide-and-conquer recurrences. (English summary) **97k:68085**
Winkler, Reinhard *see* **Grabner, Peter J.; et al., 97b:11099**
Xiao, Guo Neng An invariant of higher-order arithmetic progressions. (Chinese. English and Chinese summaries) **97g:11007**

11B39 Fibonacci and Lucas numbers and polynomials and generalizations

Araujo-Garcia, Oswaldo Rafael *see* **Randić, Milan; et al., 97m:11021**
Bergum, G. E. *see* **Deshpande, M. N., 97d:11023**
Bruckman, Paul S. Some interesting subsequences of the Fibonacci and Lucas pseudo-primes. **97e:11022**
Burger, Edward B. (*with* Kollett, Christopher S.) On the structure of quadratic irrationals associated with generalized Fibonacci and Lucas numbers. **97f:11014**
Butler, Jon T. (*with* Sasao, Tsutomu) Average number of nodes in binary decision diagrams of Fibonacci functions. **97m:11020**
Darvasi, Gyula On almost uniform distribution of the Fibonacci sequence $u(3, 1)$. **97e:11023**
— (*with* Nagy, Mihály) On repetitions in frequency blocks of the generalized Fibonacci sequence $u(3, 1)$ with $u_0 = u_1 = 1$. **97c:11017**
Deshpande, M. N. (*with* Bergum, G. E.) Interesting arrays associated with Fibonacci sequences. **97d:11023**

Dubeau, François (*with* Shannon, Anthony) A Fibonacci model of infectious disease. **97g:11010**
Dujella, Andrej Diophantine quadruples for squares of Fibonacci and Lucas numbers. (English summary) **97f:11015**
— Generalized Fibonacci numbers and the problem of Diophantus. **97e:11018**
Filipponi, Piero (*with* Horadam, Alwyn F.) Partial derivative sequences of second-order recurrence polynomials. **97g:11011**
— (*with* Freitag, Herta T.) The Zeckendorf decomposition of certain classes of integers. **97g:11012**
— On the Fibonacci numbers whose subscript is a power. **97d:11024**
— Incomplete Fibonacci and Lucas numbers. (English summary) **97d:11025**
Freitag, Herta T. (*with* Phillips, George M.) On the Zeckendorf form of F_{kn}/F_n. **97h:11010**
— *see also* **Filipponi, Piero, 97g:11012**
Harborth, Heiko (*with* Maasberg, Silke) Rado numbers for Fibonacci sequences and a problem of S. Rabinowitz. **97d:11026**
— (*with* Piepmeyer, Lothar) Rooks on Fibonacci boards. **97d:11027**
— (*with* Kemnitz, Arnfried; Robbins, Neville) Non-existence of Fibonacci triangles. (English summary) **97f:11013**
Harne, Sanjay K. (*with* Parihar, C. L.) Matrix properties of a generalized Fibonacci sequence. (English summary) **97c:11019**
— (*with* Parihar, C. L.) Diagonal functions of Fibonacci sequences. (English summary) **97b:11016**
— Fibonacci polynomial and generating matrix. (English summary)
Haukkanen, Pentti On a binomial sum for the Fibonacci and related numbers. **97c:11020**
He, Ming Feng *see* **Yu, Hong Quan; et al., 97b:11020**
Holzer, Markus (*with* Rossmanith, Peter) A simpler grammar for Fibonacci numbers. **97g:11013**
Horadam, Alwyn F. Minmax sequences for Pell numbers. **97b:11017**
— Polynomials associated with generalized Morgan-Voyce polynomials. **97d:11028**
— *see also* **Filipponi, Piero, 97g:11011**
Ibstedt, Henry Smarandache-Fibonacci triplets.
Jordan, James H. *see* **Peterson, Blake E., 97d:11031**
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Kollett, Christopher S. *see* **Burger, Edward B., 97f:11014**
Kumar Dave, Ashiwini (*with* Parihar, C. L.) An another generalized Fibonacci sequence. (English summary)
Lee, Jack Y. Some basic translational properties of the general Fibonacci line-sequence. **97d:11029**
Liu, Long Zhang (*with* Xu, Hui) A further discussion of probabilistic properties of the Fibonacci sequence. (Chinese. Chinese summary)
Luo, Ming Pentagonal numbers in the Fibonacci sequence. **97e:11024**
— Pentagonal numbers in the Lucas sequence. (English summary) **97j:11008**
Maasberg, Silke *see* **Harborth, Heiko, 97d:11026**
Matthews, K. R. Minimal multipliers for consecutive Fibonacci numbers. **97d:11030**
McDaniel, Wayne L. *see* **Ribenboim, Paulo, 97c:11021; 97h:11011**
Morales, Daniel A. *see* **Randić, Milan; et al., 97m:11021**
Morgado, José Note on the Chebyshev polynomials and applications to the Fibonacci numbers. (English summary) **97f:11016**
Nagy, Mihály *see* **Darvasi, Gyula, 97c:11017**
Parihar, C. L. *see* **Harne, Sanjay K., 97b:11016; 97c:11019** *and* **Kumar Dave, Ashiwini**
Peters, J. M. H. A ten point FFT calculation which features the golden ratio. **97f:11014**
Peterson, Blake E. (*with* Jordan, James H.) The rational heart of the integer Fibonacci pentagons. **97d:11031**
Phillips, George M. *see* **Freitag, Herta T., 97h:11010**
Piepmeyer, Lothar *see* **Harborth, Heiko, 97d:11027**
Pla, Juan On the existence of couples of second-order linear recurrences with reciprocal representation properties for their Fibonacci sequences. **97f:11017**
Prodinger, Helmut The asymptotic behavior of the golden numbers. **97d:11032**
Rabinowitz, Stanley Algorithmic manipulation of Fibonacci identities. **97d:11033**
Randić, Milan (*with* Morales, Daniel A.; Araujo-Garcia, Oswaldo Rafael) Higher-order Fibonacci numbers. (English summary) **97m:11021**
Ribenboim, Paulo (*with* McDaniel, Wayne L.) The square classes in Lucas sequences with odd parameters. (English summary) **97h:11011**
— (*with* McDaniel, Wayne L.) The square terms in Lucas sequences. (English summary) **97c:11021**
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Ricci, Paolo Emilio Generalized Lucas polynomials and Fibonacci polynomials. (Italian summary) **97b:11018**
Robbins, Neville *see* **Harborth, Heiko; et al., 97f:11013**
Rossmanith, Peter *see* **Holzer, Markus, 97g:11013**
Sasao, Tsutomu *see* **Butler, Jon T., 97m:11020**
Shannon, Anthony *see* **Dubeau, François, 97g:11010**
Somer, Lawrence Divisibility of terms in Lucas sequences of the second kind by their subscripts. **97c:11022**
Terr, David C. On the sums of digits of Fibonacci numbers. **97b:11019**
Trzaska, Zdzisław W. On Fibonacci hyperbolic trigonometry and modified numerical triangles. **97c:11023**
— Fibonacci polynomials, their properties and applications. (English summary) **97d:11034**
Wang, Tian Ming (*with* Zhang, Zhizheng) Recurrence sequences and Nörlund-Euler polynomials. **97c:11024**
Wang, Yi *see* **Yu, Hong Quan; et al., 97b:11020**
Warusfel, André Suite de Lucas et cryptographie. (English summary) [Lucas sequence and cryptography] **97f:11018**
Wells, Diana L. Residue counts modulo three for the Fibonacci triangle. **97f:11019**
Xu, Hui *see* **Liu, Long Zhang**
Young, Paul Thomas On a class of congruences for Lucas sequences. **97c:11025**
Yu, Hong Quan (*with* Wang, Yi; He, Ming Feng) On the limit of generalized golden numbers. **97b:11020**
Zhang, Zhizheng *see* **Wang, Tian Ming, 97c:11024**
Zhou, Chizhong On the Kth-order derivative sequences of Fibonacci and Lucas polynomials. **97j:11009**

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Anderson, Peter G. Advances in linear pixel shuffling. **97i:11006**
Arnault, F. The Rabin-Monier theorem for Lucas pseudoprimes. (English summary) **97f:11009**
Baringhaus, Ludwig Fibonacci numbers, Lucas numbers and integrals of certain Gaussian processes. (English summary) **97d:60031**
(Bergum, G. E.) *see* **Applications of Fibonacci numbers, 97a:11005**
Bicknell-Johnson, Marjorie (*with* Spears, Colin Paul) Classes of identities for the generalized Fibonacci numbers $G_n = G_{n-1} + G_{n-c}$ from matrices with constant valued determinants. (English summary) **97a:11031**
Carlip, Walter (*with* Jacobson, Eliot) On the stability of certain Lucas sequences modulo 2^k. **97c:11026**
Di Porto, Adina (*with* Filipponi, Piero) Some special triangular numbers, and recurring sequences. **97h:11027**
Filipponi, Piero *see* **Di Porto, Adina, 97h:11027**
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Beukers, F. (*with* Schlickewei, Hans Peter) The equation $x + y = 1$ in finitely generated groups. **97k:11051**
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Ławrynowicz, Julian (*with* Rembieliński, Jakub) On the composition of nondegenerate quadratic forms with an arbitrary index. (English and French summaries) **97g:15032**

Meurer, Michael ★ Über die u-Invariante von Körpern. (German. German summary) [On the u-invariant of fields] **97m:11055**

Rembieliński, Jakub *see* **Ławrynowicz, Julian, 97g:15032**

van der Vlugt, Marcel *see* **van der Geer, Gerard, 97i:11068**

11E08 Quadratic forms over local rings and fields

James, Donald G. The number of embeddings of quadratic **Z**-lattices. (English summary) **97c:11045**

Juki, Marek Inertial law of quadratic forms on modules over plural algebra. (English summary) **97a:11058**

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Cohen, Arjeh Marcel (*with* Nebe, Gabriele; Plesken, Wilhelm) Cayley orders. **97k:11053**

Ławrynowicz, Julian *see* **Adem, José; et al., 97i:11032**

Nebe, Gabriele *see* **Cohen, Arjeh Marcel; et al., 97k:11053**

Plesken, Wilhelm *see* **Cohen, Arjeh Marcel; et al., 97k:11053**

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Baeza, Ricardo (*with* Icaza, María Inés) On Humbert-Minkowski's constant for a number field. (English summary) **97m:11092**

Icaza, María Inés *see* **Baeza, Ricardo, 97m:11092**

Lee, Jeffrey M. (*with* Weinberg, David A.) A note on canonical forms for matrix congruence. (English summary) **97i:15013**

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11E12 Quadratic forms over global rings and fields

Chan, Wai-kiu (*with* Kim, Myung-Hwan[1]; Raghavan, Srinivasacharya) Ternary universal integral quadratic forms over real quadratic fields. **97m:11051**

Gerstein, Larry J. Nearly unimodular quadratic forms. **97a:11059**

Kim, Myung-Hwan[1] Positive definite universal ternary lattices over $\mathbf{Q}(\sqrt{5})$. (English summary) **97k:11054**

— *see also* **Chan, Wai-kiu; et al., 97m:11051**

Loos, Ottmar Tensor products and discriminants of unital quadratic forms over commutative rings. (English summary) **97g:11039**

Raghavan, Srinivasacharya *see* **Chan, Wai-kiu; et al., 97m:11051**

Snapper, Ernst Expressing primes as quadratic forms of integers. **97m:11052**

Zhu, Fu-Zu On indecomposable definite unimodular Hermitian forms. (English summary) **97f:11025**

Zhuravlëv, V. G. Representation of a form by a genus of quadratic forms. (Russian. Russian summary) **97d:11059**

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James, Donald G. The number of embeddings of quadratic **Z**-lattices. (English summary) **97c:11045**

Kahl, Helmut Die Geschlechterzahl beliebiger Ordnungen in reell-quadratischen Zahlkörpern. [The genus of arbitrary orders in real-quadratic number fields] **97b:11126**

Kitaoka, Yoshiyuki The minimum and the primitive representation of positive definite quadratic forms. II. **97b:11088**

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Wang, Yuan[1] On small zeros of quadratic forms over finite fields. II. (English summary) **97a:11055**

Zhu, Fu-Zu On the construction of indecomposable definite Hermitian forms. III. (English summary) **97d:11061**

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Worfolk, Patrick A. *see* **Adler, Roy; et al., 97m:58181**

11E20 General ternary and quaternary quadratic forms; forms of more than two variables

Sulakvelidze, L. A. On the universality of genera of positive ternary quadratic forms. (Russian. English and Georgian summaries) **97i:11033**

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Brzezinski, Juliusz Definite quaternion orders of class number one. **97h:11141**

Duke, William Some old problems and new results about quadratic forms. **97i:11035**

Heath-Brown, D. R. A new form of the circle method, and its application to quadratic forms. **97k:11139**

Jagy, William C. Five regular or nearly-regular ternary quadratic forms. **97k:11056**

Shotemirov, Ĭ. S. Formulas of A. Weil type for some classes of quaternary quadratic forms. (Russian. English, Russian and Uzbek summaries) **97a:11060**

11E25 Sums of squares and representations by other particular quadratic forms

Beridze, R. I. On the representation of numbers by some quadratic forms with eight variables. (Russian. English and Georgian summaries) **97f:11026**

Bumby, Richard T. Sums of four squares. **97m:11053**

Dzhashiashvili, Kh. L. On the representation of numbers by quadratic forms of types $(-2, 11, 1)$ and $(-3, 11, x)$. (Russian. English and Georgian summaries) **97i:11034**

Gauchman, Hillel (*with* Tóth, Gábor) Normed bilinear pairings for semi-Euclidean spaces near the Hurwitz-Radon range. (English summary) **97k:11055**

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Kaplan, Pierre (*with* Williams, Kenneth S.) On a formula of Dirichlet. (English summary) **97k:11057**

Kaplansky, Irving Integers uniquely represented by certain ternary forms. **97k:11058**

Kim, Myung-Hwan[1] (*with* Oh, Byeong-Kweon) A lower bound for the number of squares whose sum represents integral quadratic forms. **97j:11017**

Lam, Kee Yuen (*with* Yiu, Paul Y.) Beyond the impossibility of a 16-square identity. **97g:11040**

Lomadze, G. A. Cusp forms and quadratic forms of prime level and of Nebentypus. II. (Russian. English and Georgian summaries) **97h:11040**

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Polyanskiĭ, A. A. On the representation of numbers by the sum of three cubes and a binary quadratic form. (Russian) **97g:11041**

Romero, David New constructions for integral sums of squares formulae. **97d:11060**

Sánchez-Flores, Adolfo A method to generate upper bounds for the sums of squares formulae problem. (English summary) **97k:11060**

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Walfisz, Anna (*with* Malyshev, A. V.) On exact formulas for the number of representations of numbers by quadratic forms with additional linear conditions. (Russian. English and Georgian summaries) **97h:11041**

Williams, Kenneth S. *see* **Kaplan, Pierre, 97k:11057**

Yiu, Paul Y. Some upper bounds for composition numbers. (English summary) **97k:11059**

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Chan, Wai-kiu (*with* Kim, Myung-Hwan[1]; Raghavan, Srinivasacharya) Ternary universal integral quadratic forms over real quadratic fields. **97m:11051**

Duke, William Some old problems and new results about quadratic forms. **97i:11035**

Ewell, John A. Arithmetical consequences of a sextuple product identity. (English summary) **97e:11129**

Kim, Myung-Hwan[1] *see* **Chan, Wai-kiu; et al., 97m:11051**

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Thakur, Maneesh L. Cayley algebra bundles on A^2_K revisited. **97a:17006**
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11E41 Class numbers of quadratic and Hermitian forms

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Hirschhorn, Michael D. (*with* Sellers, James A.) On representations of a number as a sum of three triangles. **97e:11119**
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11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

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Lehman, J. Larry Rational eigenvectors in spaces of ternary forms. (English summary) **97k:11062**
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Datskovsky, Boris A. On Dirichlet series whose coefficients are class numbers of binary quadratic forms. **97m:11115**
Elizalde, Emilio Extension of the Chowla-Selberg formula and applications. (English summary) **97e:11107**
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11E57 Classical groups [see also 14Lxx, 20Gxx]

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Kim, Dae San On the finiteness of certain double coset spaces. (English summary) **97d:20054**
Mason, A. W. On the generators of elementary subgroups of general linear groups. **97a:20081**
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11E70 K-theory of quadratic and Hermitian forms

Barge, J. (*with* Ojanguren, M.) Sur le troisième invariant d'une forme quadratique. (English and French summaries) [The third invariant of a quadratic form] **97a:11063**
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11E72 Galois cohomology of linear algebraic groups [see also 20G10]

Borovoĭ, M. V. The Brauer-Manin obstructions for homogeneous spaces with connected or abelian stabilizer. **97g:11042**
Saito, Hiroshi[1] Classification of algebraic fields over prehomogeneous vector spaces. (Japanese) **97i:11037**
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11E76 Forms of degree higher than two

Leep, David B. (*with* Yeomans, Charles C.) Nonsingular zeros of quintic forms over finite fields. (English summary) **97k:11063**
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Bean, Michael A. The practical computation of areas associated with binary quartic forms. (English summary) **97i:11029**
Fujiwara, Masahiko Distribution of integral points on varieties. (Japanese) **97g:11034**
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de Loera, Jesús A. (*with* Santos, Francisco) An effective version of Pólya's theorem on positive definite forms. (English summary) **97b:12001**
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11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

Arason, Jón Kr. (*with* Elman, Richard; Jacob, William B.) The Witt ring of an elliptic curve over a local field. **97k:11064**
Aravire, Roberto (*with* Jacob, William B.) Versions of Springer's theorem for quadratic forms in characteristic 2. (English summary) **97d:11064**
Elman, Richard *see* **Arason, Jón Kr.; et al., 97k:11064**
Fitzgerald, Robert W. k-regular Witt rings. (English summary) **97g:11043**
Hoffmann, Detlev W. Twisted Pfister forms. (English summary) **97d:11065**
Izhboldin, O. T. On the nonexcellence of field extensions $F(\pi)/F$. (English summary) **97f:11066**
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Kashima, Hidemoto Linkage property of Witt ring and torsion quadratic forms with trivial Witt invariant. **97e:11048**
Meurer, Michael ★ Über die u-Invariante von Körpern. (German. German summary) [On the u-invariant of fields] **97m:11055**
Mináč, Ján (*with* Spira, Michel) Witt rings and Galois groups. (English summary) **97i:11038**
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Fitzgerald, Robert W. Projective modules over Witt rings. **97e:13016**
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Happel, Dieter (*with* de la Peña, José Antonio) Quadratic forms with a maximal sincere root. (English summary) **97g:16018**
Hwang, Yoon Sung (*with* Jacob, William B.) Brauer group analogues of results relating the Witt ring to valuations and Galois theory. (English summary) **97a:12004**
Jacob, William B. *see* **Hwang, Yoon Sung, 97a:12004**
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Tignol, J.-P. A Cassels-Pfister theorem for involutions on central simple algebras. **97e:16043**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Parimala, Raman Study of quadratic forms—some connections with geometry. (English summary) **97e:11049**

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Elduque, Alberto (*with* Pérez, José María) Infinite-dimensional quadratic forms admitting composition. (English summary) **97j:17003**
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11E95 p-adic theory

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Leep, David B. (*with* Yeomans, Charles C.) Quintic forms over p-adic fields. (English summary) **97a:11097**
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Mináč, Ján Poincaré polynomials, stability indices and number of orderings. I. **97e:11050**

11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

11F03 Modular and automorphic functions

Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang Cheng) Ramanujan's class invariants, Kronecker's limit formula, and modular equations. **97i:11039**
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Ishida, Nobuhiko (*with* Ishii, Noburo) The equations for modular function fields of principal congruence subgroups of prime level. (English summary) **97c:11047**
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Zhang, Liang Cheng Ramanujan's class invariants, Kronecker's limit formula and modular equations. II. **97i:11040**
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Cohn, Harvey (*with* McKay, John) Spontaneous generation of modular invariants. (English summary) **97d:11071**
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Ferenbaugh, Charles R. Lattices and generalized Hecke operators. **97d:11072**
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Nesterenko, Yu. V. Modular functions and transcendence problems. (English and French summaries) **97g:11080**

11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

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Schmidt, Thomas A. (*with* Sheingorn, Mark) Length spectra of the Hecke triangle groups. **97c:11048**
Schmutz Schaller, Paul Compact Riemann surfaces with many systoles. **97e:11051**
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Beardon, Alan F. ★ The geometry of discrete groups. (English summary) **97d:22011**
Chang, Shu-Chu Generalized Smith normal form class number w.r.t. $\Gamma_0(n)$. (English summary) **97m:11034**
Chiu, Patrick Covering with Hecke points. (English summary) **97b:11069**
Grōchenig, Karlheinz (*with* Haas, Andrew Howard) Backward continued fractions, Hecke groups and invariant measures for transformations of the interval. (English summary) **97m:58114**
Haas, Andrew Howard *see* **Grōchenig, Karlheinz, 97m:58114**
James, Donald G. (*with* Maclachlan, C.) Fuchsian subgroups of Bianchi groups. (English summary) **97i:20061**
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Näätänen, M. (*with* Kuusalo, T.) On arithmetic genus 2 subgroups of triangle groups. (English summary) **97i:20062**
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Tan, Eng-Chye (*with* Tan, Ser-Peow) Quadratic Diophantine equations and two generator Möbius groups. (English summary) **97k:11037**
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11F11 Modular forms, one variable

Berndt, Bruce C. Ramanujan's formulas for Eisenstein series. **97m:11056**
— (*with* Bialek, Paul) Five formulas of Ramanujan arising from Eisenstein series. (English summary) **97f:11028**
— (*with* Chan, Heng Huat; Zhang, Liang Cheng) Ramanujan's class invariants and cubic continued fraction. **97b:11056**
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11F30 Fourier coefficients of automorphic forms

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11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

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Atwill, Timothy W. Diagonalizing Hilbert cusp forms. (English summary) **97f:11030**
Bump, Daniel ★ Automorphic forms and representations. **97k:11080**
Cohen, Paula Beazley Humbert surfaces and transcendence properties of automorphic functions. **97m:11101**
Cohn, Harvey The primary role of modular equations. (English summary) **97k:11066**
Hatada, Kazuyuki Hecke correspondences and Betti cohomology groups for smooth compactifications of Hilbert modular varieties of dimension ≤ 3. (English summary) **97k:11078**
Khuri-Makdisi, Kamal On the Fourier coefficients of nonholomorphic Hilbert modular forms of half-integral weight. **97m:11059**
Kohnen, Winfried Elliptic curves and automorphic forms. **97j:11031**
Raghavan, Srinivasacharya (*with* Sengupta, Jyoti) On Fourier coefficients of Maass cusp forms in 3-dimensional hyperbolic space. **97d:11073**
Sengupta, Jyoti *see* **Raghavan, Srinivasacharya, 97d:11073**
Shimura, Goro Convergence of zeta functions on symplectic and metaplectic groups. **97c:11055**
Stopple, Jeffrey Theta series for indefinite quadratic forms over real number fields. **97b:11061**

11F46 Siegel modular groups and their modular and automorphic forms

Dąbrowski, Andrzej Bogdan On Poincaré series on Sp_m. **97c:11054**
Freitag, Eberhard Birational invariants of modular varieties and singular modular forms. **97m:11062**
— Siegel Eisenstein series of arbitrary level and theta series. **97k:11070**
Haruki, Atsushi Explicit formulae of Siegel Eisenstein series. (English summary) **97m:11063**
Kohnen, Winfried On Siegel modular forms. **97g:11048**
Lee, Min Ho[1] Siegel cusp forms and special values of Dirichlet series of Rankin type. (English summary) **97k:11071**
Li, Jian-Shu On the dimensions of spaces of Siegel modular forms of weight one. **97i:11048**
Miyazaki, Takuya Mixed Hodge structures of Siegel modular varieties and Siegel Eisenstein series. (English summary) **97h:11050**
Mizumoto, Shin-ichiro On integrality of Eisenstein liftings. (English summary) **97d:11075a**
— Corrections to: "On integrality of Eisenstein liftings". **97d:11075b**
— Corrigendum: "Eisenstein series for Siegel modular groups" [Math. Ann. **297** (1993), no. 4, 581–625; MR 95c:11063]. **97d:11075c**
Nagaoka, Shoyu Note on Siegel-Eisenstein series. **97d:11076**
— Note on Siegel-Eisenstein series of low weight. **97k:11072**
Poor, Cris (*with* Yuen, David S.) Estimates for dimensions of spaces of Siegel modular cusp forms. **97k:11073**
— (*with* Yuen, David S.) Dimensions of spaces of Siegel modular forms of low weight in degree four. (English summary) **97i:11049**
Runge, Bernhard On Siegel modular forms. II. **97b:11066**
— Codes and Siegel modular forms. (English summary) **97h:11051**
Schulze-Pillot, Rainer Bessel functionals and Siegel modular forms. **97i:11050**
Yuen, David S. *see* **Poor, Cris, 97i:11049** *and* **97k:11073**

Items with secondary classifications in 11F46

Cohen, Paula Beazley Humbert surfaces and transcendence properties of automorphic functions. **97m:11101**
Duke, William (*with* Imamoğlu, Ö.) A converse theorem and the Saito-Kurokawa lift. **97c:11052**
Hatada, Kazuyuki Estimates for eigenvalues of Hecke operators on Siegel cusp forms. **97m:11065**
Haverkamp, Klaus K. Hermitian Jacobi forms. **97d:11077**
Ikeda, Tamotsu On the residue of the Eisenstein series and the Siegel-Weil formula. (English summary) **97h:11046**
Imamoğlu, Ö. *see* **Duke, William, 97c:11052**
Kim, Henry H. The residual spectrum of Sp_4. (English summary) **97c:11056**
Kohnen, Winfried Estimating Fourier coefficients of cusp forms. **97e:11055**
Runge, Bernhard On symmetric Hilbert modular forms. **97m:11060**
Takayanagi, Hideshi On standard L-functions attached to $\mathrm{alt}^{n-1}(\mathbf{C}^n)$-valued Siegel modular forms. **97i:11053**
Zhuravlëv, V. G. Spherical theta series and Hecke operators. (Russian) **97d:11078**
— Euler expansions for theta series of even quadratic forms. (Russian. Russian summary) **97d:11062**

11F55 Other groups and their modular and automorphic forms (several variables)

Berndt, Rolf (*with* Homrighausen, Jost) On automorphic L-functions for the Jacobi group of degree one and a relation with L-functions for Jacobi forms. (English summary) **97k:11074**
Borcherds, Richard E. Automorphic forms on $O_{s+2,2}(\mathbf{R})^+$ and generalized Kac-Moody algebras. (English summary) **97k:11075**
Breulmann, Stefan (*with* Helmke, Volker) The covolume of quaternion groups on the four-dimensional hyperbolic space. **97i:11051**
Böser, Jürgen The multiplier-series of a Schottky group. **97k:11076**
Hamahata, Yoshinori Modular varieties associated to quaternion unitary groups of degree 2. **97j:11022**
Haverkamp, Klaus K. Hermitian Jacobi forms. **97d:11077**
Helmke, Volker *see* **Breulmann, Stefan, 97i:11051**
Homrighausen, Jost *see* **Berndt, Rolf, 97k:11074**
Jorgenson, Jay (*with* Todorov, Andrei Nikolov) A conjectured analogue of Dedekind's eta function for $K3$ surfaces. (English summary) **97a:11071**
Klingen, Helmut Automorphic forms and functions with respect to the Jacobi group. **97k:11077**
Krieg, Aloys The singular modular forms on the 27-dimensional exceptional domain. (English summary) **97m:11064**
Lee, Min Ho[1] Mixed automorphic forms on semisimple Lie groups. **97g:11049**
Li, Jian-Shu Singular automorphic forms. **97h:11052**
Nagaoka, Shoyu A note on the structure of the ring of symmetric Hermitian modular forms of degree 2 over the Gaussian field. **97i:11052**
Satō, Fumihiro Eisenstein series on weakly spherical homogeneous spaces and zeta functions of prehomogeneous vector spaces. **97g:11050**
Shimura, Goro Convergence of zeta functions on symplectic and metaplectic groups. **97c:11055**
Todorov, Andrei Nikolov *see* **Jorgenson, Jay, 97a:11071**
Tokuno, Yasushi Certain Poincaré series and kernel function of Jacobi form. (English summary) **97b:11067**
Wang, Ju Ping Some new results on Jacobi forms. (Chinese)

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Borcherds, Richard E. The moduli space of Enriques surfaces and the fake Monster Lie superalgebra. (English summary) **97e:14051**
Dąbrowski, Andrzej Bogdan On Poincaré series on Sp_m. **97c:11054**
(Estrada Sarlabous, J.) *see* **Holzapfel, Rolf-Peter, 97g:11059**
Gritsenko, V. A. (*with* Nikulin, Vyacheslav Valentinovich) $K3$ surfaces, Lorentzian Kac-Moody algebras and mirror symmetry. (English summary) **97e:14050**
Harvey, Jeffrey A. (*with* Moore, Gregory W.) Algebras, BPS states, and strings. (English summary) **97h:81163**
Holzapfel, Rolf-Peter ★ The ball and some Hilbert problems. (English summary) **97g:11059**
Ibukiyama, Tomoyoshi On dimensions of automorphic forms and zeta functions of prehomogeneous vector space. **97e:11109**
Lee, Min Ho[1] Mixed automorphic vector bundles on Shimura varieties. (English summary) **97a:14024**
Li, Jian-Shu Two reductive dual pairs in groups of type E. **97j:22037**
Martin, Yves L. A converse theorem for Jacobi forms. (English summary) **97k:11079**
Miller, Stephen D. Spectral and cohomological applications of the Rankin-Selberg method. **97a:11079**
Moore, Gregory W. *see* **Harvey, Jeffrey A., 97h:81163**
Murase, Atsushi (*with* Sugano, Takashi) Shintani functions and automorphic L-functions for $GL(n)$. (English summary) **97i:11056**
Nagaoka, Shoyu Note on Siegel-Eisenstein series. **97d:11076**
Nikulin, Vyacheslav Valentinovich *see* **Gritsenko, V. A., 97e:14050**
Stalker, John Automorphic functions on general domains in $\mathbf{C}^n$. **97i:32047**
Sugano, Takashi *see* **Murase, Atsushi, 97i:11056**

11F60 Hecke-Petersson operators, differential operators (several variables)

Hatada, Kazuyuki Estimates for eigenvalues of Hecke operators on Siegel cusp forms. **97m:11065**
— Hecke correspondences and Betti cohomology groups for smooth compactifications of Hilbert modular varieties of dimension ≤ 3. (English summary) **97k:11078**
Zhuravlëv, V. G. Spherical theta series and Hecke operators. (Russian) **97d:11078**

Items with secondary classifications in 11F60

Ash, Avner Galois representations and Hecke operators associated with the mod p cohomology of $GL(1, \mathbf{Z})$ and $GL(2, \mathbf{Z})$. (English summary) **97m:11069**
Gritsenko, V. A. The geometrical genus of the moduli space of abelian varieties. (English summary) **97f:14044**
Takayanagi, Hideshi On standard L-functions attached to $\mathrm{alt}^{n-1}(\mathbf{C}^n)$-valued Siegel modular forms. **97i:11053**
Zhuravlëv, V. G. Euler expansions for theta series of even quadratic forms. (Russian. Russian summary) **97d:11062**

11F66 Dirichlet series and functional equations in connection with modular forms

Bump, Daniel (*with* Friedberg, Solomon; Hoffstein, Jeffrey) On some applications of automorphic forms to number theory. (English summary) **97a:11072**
Friedberg, Solomon *see* **Bump, Daniel; et al., 97a:11072**
Hejhal, Dennis A. (*with* Luo, Wen Zhi) On a spectral analog of Selberg's result on $S(T)$. **97m:11066**
Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 97a:11072**
Keiper, J. B. On the zeros of the Ramanujan τ-Dirichlet series in the critical strip. (English summary) **97a:11073**
Khare, Chandrashekhar (*with* Prasad, Dipendra) Extending local representations to global representations. **97h:11053**
Knopp, Marvin I. (*with* Sheingorn, Mark) On Dirichlet series and Hecke triangle groups of infinite volume. **97h:11054**
Luo, Wen Zhi *see* **Hejhal, Dennis A., 97m:11066**
Martin, Yves L. A converse theorem for Jacobi forms. (English summary) **97k:11079**
Prasad, Dipendra *see* **Khare, Chandrashekhar, 97h:11053**
Sheingorn, Mark *see* **Knopp, Marvin I., 97h:11054**
Takayanagi, Hideshi On standard L-functions attached to $\mathrm{alt}^{n-1}(\mathbf{C}^n)$-valued Siegel modular forms. **97i:11053**
Tanigawa, Yoshio On certain Dirichlet series obtained by the product of Eisenstein series and a cusp form. **97a:11074**
Vinogradov, A. I. Convolutions. Comparison of spectral resolutions at different vertices. (Russian. Russian summary) **97a:11075**
— Convolutions. Spectral decomposition at different vertices. (Russian. English and Russian summaries) **97b:11068**

Items with secondary classifications in 11F66

Bump, Daniel (*with* Ginzburg, David; Hoffstein, Jeffrey) The symmetric cube. **97j:11023**
Ginzburg, David *see* **Bump, Daniel; et al., 97j:11023**
Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 97j:11023**
Iwaniec, Henryk The lowest eigenvalue for congruence groups. **97e:11058**
Khuri-Makdisi, Kamal On the Fourier coefficients of nonholomorphic Hilbert modular forms of half-integral weight. **97m:11059**
Luo, Wen Zhi Spectral mean-value of automorphic L-functions at special points. (English summary) **97m:11067**
Mizumoto, Shin-ichiro Corrigendum: "Eisenstein series for Siegel modular groups" [Math. Ann. **297** (1993), no. 4, 581–625; MR 95c:11063]. **97h:11054**

11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

Luo, Wen Zhi Spectral mean-value of automorphic L-functions at special points. (English summary) **97m:11067**
Schmidt, Thomas A. Rational period functions and parabolic cohomology. (English summary) **97d:11079**
Sofer, Adriana p-adic interpolation of square roots of central values of Hecke L-functions. **97m:11068**
Yoshida, Hiroyuki On calculations of zeros of various L-functions. **97a:11076**
Zhang, Yuanli Mean values of quadratic twists of automorphic L-functions. **97i:11054**

Items with secondary classifications in 11F67

Balog, Antal (*with* Darmon, Henri; Ono, Ken) Congruence for Fourier coefficients of half-integral weight modular forms and special values of L-functions. (English summary) **97e:11056**
Bertolini, Massimo (*with* Darmon, Henri) Heegner points on Mumford-Tate curves. **97k:11100**
Borel, Armand Values of zeta-functions at integers, cohomology and polylogarithms. **97a:19005**
Darmon, Henri *see* **Balog, Antal; et al., 97e:11056** *and* **Bertolini, Massimo, 97k:11100**
Gangl, Herbert ★ Funktionalgleichungen von Polylogarithmen. (German) [Functional equations of polylogarithms] **97h:19009**
Guo, Jiandong On the positivity of the central critical values of automorphic L-functions for GL(2). **97h:11055**
Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
Jiang, Dihua Degree 16 standard L-function of $\mathrm{GSp}(2) \times \mathrm{GSp}(2)$. (English summary) **97d:11081**
Khuri-Makdisi, Kamal On the Fourier coefficients of nonholomorphic Hilbert modular forms of half-integral weight. **97m:11059**
Knopp, Marvin I. (*with* Sheingorn, Mark) On Dirichlet series and Hecke triangle groups of infinite volume. **97h:11054**
Lee, Min Ho[1] Siegel cusp forms and special values of Dirichlet series of Rankin type. (English summary) **97k:11071**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**
Merel, Loïc L'accouplement de Weil entre le sous-groupe de Shimura et le sous-groupe cuspidal de $J_0(p)$. [Weil pairing of the Shimura subgroup and the cuspidal subgroup of $J_0(p)$] **97f:11045**
Murase, Atsushi (*with* Sugano, Takashi) Shintani functions and Rankin-Selberg convolution. II. Global theory. (Japanese) **97f:11036**
Ono, Ken *see* **Balog, Antal; et al., 97e:11056**
Perrin-Riou, Bernadette Fonctions L p-adiques. [p-adic L-functions] **97j:11021**
Sheingorn, Mark *see* **Knopp, Marvin I., 97h:11054**
Shimura, Goro Convergence of zeta functions on symplectic and metaplectic groups. **97c:11055**
Stark, H. M. On the determination of an L-function from one value. **97g:11068**
Sugano, Takashi *see* **Murase, Atsushi, 97f:11036**

11F70 Representation-theoretic methods; automorphic representations over local and global fields

Bump, Daniel (*with* Ginzburg, David; Hoffstein, Jeffrey) The symmetric cube. **97j:11023**
— ★ Automorphic forms and representations. **97k:11080**
Chiu, Patrick Covering with Hecke points. (English summary) **97b:11069**
Friedberg, Solomon (*with* Jacquet, Hervé) The fundamental lemma for the Shalika subgroup of GL(4). (English summary) **97d:11080**
Ginzburg, David On the symmetric fourth power L-function of GL_2. (English summary) **97a:11077**
— A Rankin-Selberg integral for the adjoint L-function of Sp_4. (English summary) **97k:11081**
— *see also* **Bump, Daniel; et al., 97j:11023**
Guo, Jiandong On the positivity of the central critical values of automorphic L-functions for GL(2). **97h:11055**
Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 97j:11023**
Jacquet, Hervé *see* **Friedberg, Solomon, 97d:11080**
Jiang, Dihua Degree 16 standard L-function of $\mathrm{GSp}(2) \times \mathrm{GSp}(2)$. (English summary) **97d:11081**
Kim, Henry H. The residual spectrum of Sp_4. (English summary) **97c:11056**
— The residual spectrum of G_2. (English summary) **97i:11055**
Konno, Takuya The residual spectrum of U(2, 2). (Japanese) **97a:11078**
Koseki, Harutaka (*with* Oda, Takayuki) Whittaker functions for the large discrete series representations of SU(2, 1) and related zeta integrals. (English summary) **97d:11082**
Mœglin, C. (*with* Waldspurger, J.-L.) ★ Spectral decomposition and Eisenstein series. **97d:11083**
Murase, Atsushi (*with* Sugano, Takashi) Shintani functions and Rankin-Selberg convolution. I. Local theory. (English summary) **97f:11035**
— (*with* Sugano, Takashi) Shintani functions and Rankin-Selberg convolution. II. Global theory. (Japanese) **97f:11036**
— (*with* Sugano, Takashi) Shintani functions and automorphic L-functions for $\mathrm{GL}(n)$. (English summary) **97i:11056**
Nyssen, Louise ★ Trois résultats à propos des formes automorphes et des représentations. (French. French summary) [Three results concerning automorphic forms and representations] **97i:11057**
Oda, Takayuki *see* **Koseki, Harutaka, 97d:11082**
Stade, Eric Mellin transforms of Whittaker functions on $\mathrm{GL}(4, \mathbf{R})$ and $\mathrm{GL}(4, \mathbf{C})$. **97c:11057**
Sugano, Takashi *see* **Murase, Atsushi, 97f:11035; 97f:11036** *and* **97i:11056**
Waldspurger, J.-L. *see* **Mœglin, C., 97d:11083**
Watanabe, Takao The local theta correspondence for unramified unitary groups. (English summary) **97d:11084a**
— The local theta correspondence of irreducible type 2 dual reductive pairs. (English summary) **97d:11084b**

Items with secondary classifications in 11F70

Adler, J. D. Self-contragredient supercuspidal representations of GL_n. (English summary) **97j:22038**
Berndt, Rolf (*with* Homrighausen, Jost) On automorphic L-functions for the Jacobi group of degree one and a relation with L-functions for Jacobi forms. (English summary) **97k:11074**
Bump, Daniel (*with* Friedberg, Solomon; Hoffstein, Jeffrey) On some applications of automorphic forms to number theory. (English summary) **97a:11072**
Cogdell, J. W. (*with* Piatetski-Shapiro, I. I.) Unitarity and functoriality. **97b:22024**
Friedberg, Solomon *see* **Bump, Daniel; et al., 97a:11072**
Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 97a:11072**
Homrighausen, Jost *see* **Berndt, Rolf, 97k:11074**
Jacquet, Hervé (*with* Rallis, Stephen) Uniqueness of linear periods. **97k:22025**
Jordan, Bruce W. (*with* Livné, Ron) Integral Hodge theory and congruences between modular forms. **97d:11074**
Khare, Chandrashekhar (*with* Prasad, Dipendra) Extending local representations to global representations. **97h:11053**
Kisbye, N. P. On real analytic Poincaré series of exponential growth. (English summary) **97c:11049**
Knapp, Anthony W. Group representations and harmonic analysis. II. **97i:11002**
Li, Jian-Shu Singular automorphic forms. **97h:11052**
— On the dimensions of spaces of Siegel modular forms of weight one. **97i:11048**
Livné, Ron *see* **Jordan, Bruce W., 97d:11074**
Mœglin, C. Quadratic unipotent representations of p-adic groups. **97b:22021**
— Représentations quadratiques unipotentes des groupes classiques p-adiques. [Quadratic unipotent representation of the p-adic classical groups] **97h:22013**
Murty, M. Ram (*with* Rajan, C. S.) Stronger multiplicity one theorems for forms of general type on GL_2. **97h:11047**
Piatetski-Shapiro, I. I. *see* **Cogdell, J. W., 97b:22024**
Prasad, Dipendra *see* **Khare, Chandrashekhar, 97h:11053**
Rajan, C. S. *see* **Murty, M. Ram, 97h:11047**
Rallis, Stephen *see* **Jacquet, Hervé, 97k:22025**
Rouquier, Raphaël Caractérisation des caractères et pseudo-caractères. [Characterization of characters and pseudocharacters] **97a:20010**
Rudnick, Zeév (*with* Sarnak, Peter) Zeros of principal L-functions and random matrix theory. **97f:11074**
Sarnak, Peter *see* **Rudnick, Zeév, 97f:11074**
Savin, Gordan K-types of minimal representations (p-adic case). (English summary) **97f:22030**
Tadić, Marko Correspondence on characters of irreducible unitary representations of $\mathrm{GL}(n, \mathbf{C})$. **97f:22026**
Vignéras, Marie-France Erratum: "Modular representations of $\mathrm{GL}(2, F)$ in characteristic l, with F a p-adic field, $p \neq l$" [Compositio Math. **72** (1989), no. 1, 33–66; MR 90k:22029]. (French) **97c:22022**

11F72 Spectral theory; Selberg trace formula

Bogomol'nyĭ, E. B. (*with* Leyvraz, F.; Schmit, C.) Statistical properties of eigenvalues for the modular group. (English summary) **97c:11058**
Hejhal, Dennis A. On value distribution properties of automorphic functions along closed horocycles. **97j:11024**
Hetrodt, Georg Über einen Zusammenhang zwischen der Spektraltheorie automorpher Funktionen auf dem oberen Halbraum und den Klassenzahlen biquadratischer Zahlkörper. [On a connection between the spectral theory of automorphic functions on the upper half-space and the class numbers of biquadratic number fields] **97j:11025**
Iwaniec, Henryk The lowest eigenvalue for congruence groups. **97e:11058**
Levy, Jason A truncated Poisson formula for groups of rank at most two. **97b:11070**
— A note on the relative trace formula. (English summary) **97d:11085**
Leyvraz, F. *see* **Bogomol'nyĭ, E. B.; et al., 97c:11058**
Luo, Wen Zhi (*with* Sarnak, Peter) Quantum ergodicity of eigenfunctions on $PSL_2(\mathbf{Z})\backslash\mathbf{H}^2$. **97f:11037**
Marklof, J. On multiplicities in length spectra of arithmetic hyperbolic three-orbifolds. (English summary) **97d:11086**
Miller, Stephen D. Spectral and cohomological applications of the Rankin-Selberg method. **97a:11079**
Parnovskiĭ, L. B. Spectral asymptotics of Laplace operators on surfaces with cusps. **97a:11080**
Sarnak, Peter Selberg's eigenvalue conjecture. **97c:11059**
— *see also* **Luo, Wen Zhi, 97f:11037**
Schmit, C. *see* **Bogomol'nyĭ, E. B.; et al., 97c:11058**
Stade, Eric (*with* Wallace, Dorothy I.) Weyl's law for $SL(3,\mathbf{Z})\backslash SL(3,\mathbf{R})/SO(3,\mathbf{R})$. (English summary) **97i:11058**
Stramm, Klaus ★ Kleine Eigenwerte des Laplace-Operators zu Kongruenzgruppen. (German) [Small eigenvalues of the Laplace operator for congruence groups] **97a:11081**
Wallace, Dorothy I. *see* **Stade, Eric, 97i:11058**

Items with secondary classifications in 11F72

Aurich, R. (*with* Marklof, J.) Trace formulae for three-dimensional hyperbolic lattices and application to a strongly chaotic tetrahedral billiard. (English summary) **97f:81035**
Bogomol'nyĭ, E. B. (*with* Leyvraz, F.; Schmit, C.) Distribution of eigenvalues for the modular group. (English summary) **97k:81052**
Brooks, Robert Wolfe Trace-formula methods in spectral geometry. (English summary) **97h:58164**
Bunke, Ulrich (*with* Olbrich, Martin) ★ Selberg zeta and theta functions. (English summary) **97c:11088**
Duke, William (*with* Friedlander, John B.; Iwaniec, Henryk) Class group L-functions. **97h:11138**
— (*with* Imamoğlu, Ö.) A converse theorem and the Saito-Kurokawa lift. **97c:11052**
Friedlander, John B. *see* **Duke, William; et al., 97h:11138**
Grosche, Christian ★ Path integrals, hyperbolic spaces, and Selberg trace formulae. **97k:58037**
Gutkin, Eugene (*with* Judge, Chris) The geometry and arithmetic of translation surfaces with applications to polygonal billiards. (English summary) **97c:58116**
Hejhal, Dennis A. (*with* Luo, Wen Zhi) On a spectral analog of Selberg's result on $S(T)$. **97m:11066**
Hiraga, Kaoru On the multiplicities of the discrete series of semisimple Lie groups. **97j:22031**
Hurt, Norman E. Kloosterman sums and their applications: a review. (English summary) **97c:11083**
Imamoğlu, Ö. *see* **Duke, William, 97c:11052**
Iwaniec, Henryk *see* **Duke, William; et al., 97h:11138**
Jorgenson, Jay (*with* Lundelius, Rolf) Convergence theorems for relative spectral functions on hyperbolic Riemann surfaces of finite volume. **97f:58133**
— (*with* Lundelius, Rolf) Convergence of the heat kernel and the resolvent kernel on degenerating hyperbolic Riemann surfaces of finite volume. (English summary) **97h:58177**
Judge, Chris *see* **Gutkin, Eugene, 97c:58116**
Jutila, Matti The fourth moment of Riemann's zeta-function and the additive divisor problem. **97f:11069**
Kurokawa, Nobushige Zeta functions of categories. **97m:11114**
Lafforgue, Laurent Sur la conjecture de Ramanujan-Petersson pour les corps de fonctions. I. Étude géométrique. (English and French summaries) [The Ramanujan-Petersson conjecture for function fields. I. Geometric study] **97g:11055**
Leyvraz, F. *see* **Bogomol'nyĭ, E. B.; et al., 97k:81052**
Lundelius, Rolf *see* **Jorgenson, Jay, 97a:58177** *and* **97f:58133**
Luo, Wen Zhi *see* **Hejhal, Dennis A., 97m:11066**
Marklof, J. *see* **Aurich, R., 97f:81035**
Motohashi, Yōichi A relation between the Riemann zeta-function and the hyperbolic Laplacian. **97e:11101**
Ninnemann, Holger Gutzwiller's octagon and the triangular billiard $T^*(2,3,8)$ as models for the quantization of chaotic systems by Selberg's trace formula. (English summary) **97c:81046**
Olbrich, Martin *see* **Bunke, Ulrich, 97c:11088**
Rocha, André Meromorphic extension of the Selberg zeta function for Kleinian groups via thermodynamic formalism. (English summary) **97c:58125**
Schmit, C. *see* **Bogomol'nyĭ, E. B.; et al., 97k:81052**
Vinogradov, A. I. Convolutions. Comparison of spectral resolutions at different vertices. (Russian. Russian summary) **97a:11075**
— Convolutions. Spectral decomposition at different vertices. (Russian. English and Russian summaries) **97b:11068**

11F75 Cohomology of arithmetic groups

Ash, Avner Galois representations and Hecke operators associated with the mod p cohomology of $GL(1,\mathbf{Z})$ and $GL(2,\mathbf{Z})$. (English summary) **97m:11069**
Borel, Armand (*with* Labesse, Jean-Pierre; Schwermer, J.) On the cuspidal cohomology of S-arithmetic subgroups of reductive groups over number fields. **97j:11026**
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Labesse, Jean-Pierre *see* **Borel, Armand; et al., 97j:11026**
Pierre, Christian Endomorphism from Galois antiautomorphism. **97b:11071**
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Hida, Haruzo Control theorems of p-nearly ordinary cohomology groups for $SL(n)$. (English and French summaries) **97c:11053**
Miller, Stephen D. Spectral and cohomological applications of the Rankin-Selberg method. **97a:11079**
Schmidt, Thomas A. (*with* Sheingorn, Mark) Length spectra of the Hecke triangle groups. **97c:11048**
— Rational period functions and parabolic cohomology. (English summary) **97d:11079**
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Venkataramana, T. N. On the first cohomology of cocompact arithmetic groups. (English summary) **97k:22015**

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Lario, Joan-C. (*with* Rio, Anna) Elliptic modularity for octahedral Galois representations. (English summary) **97d:11088**
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— (*with* Canuto, Giuseppe) The Shimura-Taniyama-Weil conjecture. (Italian. English summary) **97e:11061**
Canuto, Giuseppe *see* **Bertolini, Massimo, 97e:11061**
Darmon, Henri *see* **Bertolini, Massimo, 97h:11067**
Destrempes, François Deformations of Galois representations: the flat case. **97e:11059**
Diamond, Fred The refined conjecture of Serre. **97b:11065**
— On deformation rings and Hecke rings. **97d:11172**
Hasegawa, Yuji (*with* Hashimoto, Ki-ichiro; Momose, Fumiyuki) QM-curves and Q-curves. (*see* **97d:00019**)
Hashimoto, Ki-ichiro *see* **Hasegawa, Yuji; et al., (97d:00019)**
Khare, Chandrashekhar (*with* Prasad, Dipendra) Extending local representations to global representations. **97h:11053**
Kraus, Alain Courbes elliptiques semi-stables et corps quadratiques. (French summary) [Semistable elliptic curves and quadratic fields] **97e:11065**
Kurihara, Masato An outline of Wiles' work on Fermat's conjecture. (Japanese) **97b:11074**
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Oesterlé, Joseph Travaux de Wiles (et Taylor, ...). II. (French summary) [Works of Wiles (and Taylor ...). II] **97m:11077**
Prasad, Dipendra *see* **Khare, Chandrashekhar, 97h:11053**
Ribet, Kenneth A. Irreducible Galois representations arising from component groups of Jacobians. **97h:11059**
Rohrlich, David E. Galois theory, elliptic curves, and root numbers. **97m:11075**
Saby, Nicolas Théorie d'Iwasawa géométrique: un théorème de comparaison. (English and French summaries) [Geometric Iwasawa theory: a comparison theorem] **97f:11046**
Serre, Jean-Pierre Travaux de Wiles (et Taylor, ...). I. (French summary) [Works of Wiles (and Taylor ...). I] **97m:11076**
Shepherd-Barron, N. I. (*with* Taylor, Richard) mod 2 and mod 5 icosahedral representations. **97h:11060**
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Yang, Jae-Hyun Note on Taniyama-Shimura-Weil conjecture. (English summary) **97g:11054**

11F85 p-adic theory, local fields [see also 14G20, 22E50]

Coleman, Robert F. Classical and overconvergent modular forms. **97d:11090b**
— Classical and overconvergent modular forms. **97d:11090a**
Destrempes, François Deformations of Galois representations: the flat case. **97e:11059**
Pigli, Mircea Adelic integrable systems. (English summary) **97b:11072**

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Khare, Chandrashekhar Congruences between cusp forms: the (p,p) case. **97g:11047a**
— Correction to: "Congruences between cusp forms: the (p,p) case". **97g:11047b**
Oesterlé, Joseph Travaux de Wiles (et Taylor, ...). II. (French summary) [Works of Wiles (and Taylor ...). II] **97m:11077**
Perrin-Riou, Bernadette Fonctions L p-adiques. [p-adic L-functions] **97j:11021**
Serre, Jean-Pierre Travaux de Wiles (et Taylor, ...). I. (French summary) [Works of Wiles (and Taylor ...). I] **97m:11076**

Sofer, Adriana p-adic interpolation of square roots of central values of Hecke L-functions. **97m:11068**
Ulmer, Douglas L. Slopes of modular forms and congruences. (English and French summaries) **97i:11046a**
— Corrigendum: "Slopes of modular forms and congruences". **97i:11046b**

11F99 None of the above, but in this section

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Böser, Jürgen The multiplier-series of a Schottky group. **97k:11076**
Feng, Keqin (*with* Li, Wen-Ch'ing Winnie) Spectra of hypergraphs and applications. (English summary) **97f:05128**
Li, Wen-Ch'ing Winnie *see* **Feng, Keqin**, **97f:05128**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

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Nart, Enric Arithmetic: at the gates of the Promised Land. (Catalan) **97d:11002**

11G05 Elliptic curves over global fields [see also 14H52]

Abbes, Ahmed (*with* Ullmo, Emmanuel) À propos de la conjecture de Manin pour les courbes elliptiques modulaires. (French summary) [The Manin conjecture for modular elliptic curves] **97f:11038**
Abel-Hollinger, Christine S. (*with* Zimmer, Horst G.) Torsion groups of elliptic curves with integral j-invariant over multiquadratic fields. (English summary) **97e:11060**
Bertolini, Massimo (*with* Canuto, Giuseppe) The Shimura-Taniyama-Weil conjecture. (Italian. English summary) **97e:11061**
Bremner, A. (*with* Stroeker, R. J.; Tzanakis, N.) On sums of consecutive squares. (English summary) **97k:11082**
Brumer, Armand (*with* Silverman, Joseph H.) The number of elliptic curves over $\mathbf{Q}$ with conductor N. (English summary) **97e:11062**
Canuto, Giuseppe *see* **Bertolini, Massimo**, **97e:11061**
Chahal, Jasbir S. (*with* Top, Jaap) Triangular numbers and elliptic curves. (English summary) **97k:11083**
Connell, Ian Points of order 11 on elliptic curves. **97g:11051**
Dem'yanenko, V. A. On the number of integral points of elliptic curves. (Russian. English and Russian summaries) **97e:11063**
Dummigan, Neil The determinants of certain Mordell-Weil lattices. **97a:11083**
Everest, Graham (*with* Fhlathúin, Bríd Ní) The elliptic Mahler measure. **97e:11064**
Fermigier, Stéfane Construction of high-rank elliptic curves over $\mathbf{Q}$ and $\mathbf{Q}(t)$ with non-trivial 2-torsion (extended abstract). (English summary) **97m:11071**
— Exemples de courbes elliptiques de grand rang sur $\mathbf{Q}(t)$ et sur $\mathbf{Q}$ possédant des points d'ordre 2. (English and French summaries) [Construction of high-rank elliptic curves over $\mathbf{Q}(t)$ and $\mathbf{Q}$ with nontrivial 2-torsion] **97b:11073**
Fhlathúin, Bríd Ní *see* **Everest, Graham**, **97e:11064**
Fouvry, Etienne (*with* Murty, M. Ram) On the distribution of supersingular primes. (English summary) **97a:11084**
Gebel, Josef (*with* Pethő, Attila; Zimmer, Horst G.) Computing S-integral points on elliptic curves. **97m:11072**
Halberstadt, Emmanuel (*with* Kraus, Alain) Sur la comparaison galoisienne des points de torsion des courbes elliptiques. (English and French summaries) [Galois comparison of the torsion points of elliptic curves] **97f:11059**
Ishibashi, Makoto (*with* Sato, Hisayoshi; Shiratani, Katsumi) Hasse invariants of elliptic curves. (Japanese) (*see* **97f:11002**)
Kato, Kazuya Elliptic curves: Iwasawa's theory of automorphic forms. (Japanese) (*see* **97f:11002**)
Kida, Masanari On a characterization of Shimura's elliptic curve over $\mathbf{Q}(\sqrt{37})$. **97k:11084**
Kraus, Alain Une remarque sur les points de torsion des courbes elliptiques. (English and French summaries) [A remark about the torsion points of elliptic curves] **97a:11085**
— Sur les modules des points de 7-torsion d'une famille de courbes elliptiques. (English and French summaries) [Modules of the 7-torsion points of a family of elliptic curves] **97i:11060**
— Courbes elliptiques semi-stables et corps quadratiques. (French summary) [Semistable elliptic curves and quadratic fields] **97e:11065**
— *see also* **Halberstadt, Emmanuel**, **97i:11059**
Kuriharu, Masato An outline of Wiles' work on Fermat's conjecture. (Japanese) **97b:11074**
Kwon, Soonhak Elliptic curves related with triangles. **97d:11091**
Levesque, Claude Familles de courbes elliptiques de rang ≥ 1 et remarques sur une fonction arithmétique associée à un algorithme de 2-descente de Tate. (English and French summaries) [Families of elliptic curves of rank ≥ 1 and remarks on an arithmetical function associated with a Tate 2-descent algorithm] **97k:11085**
McKay, John A note on the elliptic curves of Harada-Lang. **97d:11092**
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Moreno, Carlos Julio Fermat's last theorem: from Fermat to Wiles. **97b:11075**
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Nagao, Koh-ichi Construction of high-rank elliptic curves with a nontrivial torsion point. (English summary) **97c:11060**
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Ono, Takashi Triangles and elliptic curves. V. **97a:11087**
— Triangles and elliptic curves. VI. **97a:11088**
— Triangles and elliptic curves. VII. **97d:11094**
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— Quadratic forms and elliptic curves. II. **97m:11074**
Pellarin, Federico Estimation du degré d'une isogénie entre courbes elliptiques. (English and French summaries) [Degree estimates for isogenies between elliptic curves] **97g:11052**
Pethő, Attila *see* **Gebel, Josef; et al.**, **97m:11072**
Rohrlich, David E. Galois theory, elliptic curves, and root numbers. **97m:11075**
— Galois representations in the Tate-Shafarevich group of an elliptic curve. **97e:11061**
Rosen, Michael *see* **Murty, M. Ram; et al.**, **97d:11093**
Sato, Hisayoshi *see* **Ishibashi, Makoto; et al.**, **(97f:11002)**
Schmitt, S. Computation of the Selmer groups of certain parameterized elliptic curves. **97k:11087**
Serre, Jean-Pierre Travaux de Wiles (et Taylor, ...). I. (French summary) [Works of Wiles (and Taylor ...). I] **97m:11076**
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— *see also* **Merriman, J. R.; et al.**, **97j:11027**
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— *see also* **Murty, M. Ram; et al.**, **97d:11093** *and* **Brumer, Armand**, **97e:11062**
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Ulmer, Douglas L. A construction of local points on elliptic curves over modular curves. **97b:11076**
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Yamagishi, Hizuru On the existence of elliptic curves of Mordell-Weil rank 6 with four parameters. (English summary) **97d:11095**
Yang, Jae-Hyun Note on Taniyama-Shimura-Weil conjecture. (English summary) **97g:11054**
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Agboola, A. A note on elliptic curves and Galois module structure in global function fields. (English summary) **97b:11134**
— Torsion points on elliptic curves and Galois module structure. **97a:11178**
Aoki, Noboru Introduction to the work of Kolyvagin as it relates to the Birch-Swinnerton-Dyer conjecture. (Japanese) (*see* **97f:11002**)
Bertolini, Massimo (*with* Darmon, Henri) Heegner points on Mumford-Tate curves. **97k:11100**
Cassou-Nogues, Philippe (*with* Taylor, Martin J.) Structures galoisiennes et courbes elliptiques. [Galois structures and elliptic curves] **97k:11160**
Chamizo, Fernando (*with* Iwaniec, Henryk) Estimates for L-functions associated with some elliptic curves. **97m:11085**
Cipra, Barry Fermat prover points to next challenges. **97e:11002**
Darmon, Henri *see* **Bertolini, Massimo**, **97k:11100**
Diamond, Fred (*with* Im, John) Modular forms and modular curves. **97g:11044**
— On deformation rings and Hecke rings. **97d:11172**
Elkies, Noam D. Wiles minus epsilon implies Fermat. **97b:11043**
Feng, Keqin Non-congruent numbers, odd graphs and the Birch-Swinnerton-Dyer conjecture. **97e:11077**
Goldfeld, Dorian (*with* Szpiro, Lucien) Bounds for the order of the Tate-Shafarevich group. (English summary) **97a:11102**
Guletskiĭ, V. I. (*with* Yanchevskiĭ, V. I.) Reciprocity laws in Brauer groups of function fields of elliptic curves. (Russian. English and Russian summaries) **97h:11068**
Gusić, Ivica Some theorems on equality of L-functions of elliptic curves. (English summary) **97i:11072**
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Iskra, Boris Non-congruent numbers with arbitrarily many prime factors congruent to 3 modulo 8. **97h:11003**
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Kaneko, Masanobu Jacobi polynomials, certain elliptic modular forms and supersingular elliptic curves. (Japanese) (*see* **97f:11002**)
Kihara, Shoichi On the rank of the elliptic curve $y^2 = x^3 + k$. II. **97m:11040**
Kraus, Alain Sur les équations $a^p + b^p + 15c^p = 0$ et $a^p + 3b^p + 5c^p = 0$. (English and French summaries) [On the equations $a^p + b^p + 15c^p = 0$ and $a^p + 3b^p + 5c^p = 0$] **97d:11052**
Lario, Joan-C. (*with* Rio, Anna) Elliptic modularity for octahedral Galois representations. (English summary) **97d:11088**
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Lehman, J. Larry Rational eigenvectors in spaces of ternary forms. (English summary) **97k:11062**
Martin, Yves L. (*with* Ono, Ken) Eta-quotients and elliptic curves. (English summary) **97m:11057**
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Merel, Loïc Homologie des courbes modulaires affines et paramétrisations modulaires. [Homology of affine modular curves and modular parametrizations] **97a:11094**

Mozsky, Paul Generalizing the Birch-Stephens theorem. I. Modular curves. **97a:11103**
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Nakazato, Hajime Heegner points of modular elliptic curves. (Japanese) (*see* **97f:11002**)
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Rubin, Karl Euler systems and exact formulas in number theory. **97a:11104**
Schneiders, Ursula Estimating the 2-rank of cubic fields by Selmer groups of elliptic curves. (English summary) **97k:11142**
Stark, H. M. On the determination of an L-function from one value. **97g:11068**
Swinnerton-Dyer, H. P. F. Rational points on certain intersections of two quadrics. **97a:11099**
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Zhang, Shaowei The nonvanishing of $L(1)$ for the L-series of some elliptic curves. (English and Chinese summaries) **97a:11105**
Zhao, Chunlai A criterion for elliptic curves with lowest 2-power in $L(1)$. (English summary) **97m:11088**

11G07 Elliptic curves over local fields [see also 14G20, 14H52]

Tate, John A review of non-Archimedean elliptic functions. **97d:11096**

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Arason, Jón Kr. (*with* Elman, Richard; Jacob, William B.) The Witt ring of an elliptic curve over a local field. **97k:11064**
Elman, Richard *see* **Arason, Jón Kr.; et al., 97k:11064**
Jacob, William B. *see* **Arason, Jón Kr.; et al., 97k:11064**
Liu, Qing Modèles entiers des courbes hyperelliptiques sur un corps de valuation discrète. (English summary) [Integral models of hyperelliptic curves over a discrete valuation field] **97h:11062**
Ono, Takashi Triangles and elliptic curves. V. **97a:11087**
Rohrlich, David E. Galois theory, elliptic curves, and root numbers. **97m:11075**

11G09 Drinfel'd modules; higher-dimensional motives, etc. [see also 14L05]

Allouche, Jean-Paul Transcendence of the Carlitz-Goss gamma function at rational arguments. (English summary) **97f:11061**
Anderson, Greg W. Log-algebraicity of twisted A-harmonic series and special values of L-series in characteristic p. (English summary) **97h:11058**
Angles, Bruno On some subrings of Ore polynomials connected with finite Drinfel'd modules. **97c:11062**
Bae, Sunghan (*with* Kang, Pyung-Lyun) Rank one Drinfel'd modules on hyperelliptic curves. (English summary) **97f:11042**
— *see also* **Lee, Seungjae, 97k:11090**
Brownawell, W. Dale Algebraic independence of Drinfel'd exponential and quasi-periodic functions. (English summary) **97c:11063**
— Submodules of products of quasi-periodic modules. (English summary) **97k:11088**
Denis, Laurent Lemmes de multiplicités et T-modules. [Multiplicity lemmas and T-modules] **97a:11089**
— Irrationalité de valeurs associées à l'exponentielle de Carlitz. (English summary) [Irrationality of values associated with the Carlitz exponential] **97k:11089**
Diaz-Vargas, Javier Riemann hypothesis for $\mathbf{F}_p[T]$. (English summary) **97m:11078**
Gekeler, Ernst-Ulrich (*with* Reversat, Marc) Jacobians of Drinfeld modular curves. **97f:11043**
Goss, David ★ Basic structures of function field arithmetic. **97i:11062**
Joshi, Kirti A family of étale coverings of the affine line. (English summary) **97f:11044**
Kang, Pyung-Lyun *see* **Bae, Sunghan, 97f:11042**
Lafforgue, Laurent Sur la conjecture de Ramanujan-Petersson pour les corps de fonctions. I. Étude géométrique. (English and French summaries) [The Ramanujan-Petersson conjecture for function fields. I. Geometric study] **97g:11055**
— Sur la conjecture de Ramanujan-Petersson pour les corps de fonctions. II. Étude spectrale. (English and French summaries) [On the Ramanujan-Petersson conjecture over function fields. II. Spectral study] **97g:11056**
Larsen, Michael Jeffrey Maximality of Galois actions for compatible systems. **97a:11090**
Lee, Seungjae (*with* Bae, Sunghan) On the singular values of the quotient of Drinfeld discriminant functions. (English summary) **97k:11090**
Levin, A. M. Elliptic polylogarithms in K-theory. (English summary) **97j:11028**
Mauduit, Véronique Symbole de Newton. Symbole de Jacobi-Carlitz. (English and French summaries) [Newton symbol. Jacobi-Carlitz symbol] **97m:11079**
Poonen, Bjorn Rigidity and semi-invariants in Drinfel'd modules. (English summary) **97c:11066**
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Taguchi, Yuichiro A duality for finite t-modules. (English summary) **97b:11078**
— On φ-modules. **97e:11067**
— (*with* Wan, Da Qing) Entireness of L-functions of φ-sheaves on affine complete intersections. (English summary) **97m:11080**
Tamagawa, Akio The Tate conjecture and the semisimplicity conjecture for t-modules. (*see* **97f:11002**)
Thakur, Dinesh S. Transcendence of gamma values for $\mathbf{F}_q[T]$. (English summary) **97i:11063**
Tubbs, Robert Analytic subgroups of t-modules. **97i:11064**
Wan, Da Qing On the Riemann hypothesis for the characteristic p zeta function. **97c:11064**
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Woo, Sung-Sik On cohomology groups of $\mathbf{F}_p[t]$-module schemes. (English summary) **97k:11091**
Zhao, Jianqiang On root numbers connected with special values of L-functions over $\mathbf{F}_q(T)$. (English summary) **97k:11092**

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Aiba, Akira[2] Carlitz modules and the Galois module structure of rings of integers. (Japanese) **97g:11123**
Geisser, Thomas p-adic K-theory of Hecke characters of imaginary quadratic fields and an analogue of Beilinson's conjectures. **97m:11086**
Gekeler, Ernst-Ulrich Analytical construction of Weil curves over function fields. **97g:11060**
Genestier, Alain Espaces symétriques de Drinfeld. (French summary) [Drinfel'd symmetric spaces] **97k:14045**
Kimura, Ken-Ichiro K_2 of a Fermat quotient and the value of its L-function. (English summary) **97h:19011**
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Saitô, Shûji On motives. (Japanese) (*see* **97f:11002**)
Saito, Takeshi The sign of the functional equation of the Hasse-Weil L-function. (Japanese) **97i:11073**
Scholl, A. J. Vanishing cycles and non-classical parabolic cohomology. **97d:11089**
Schröter, Martin ★ Über Kurokawa-Tensorprodukte von L-Reihen. (German) [On Kurokawa tensor products of L-series] **97g:11094**
Tubbs, Robert Algebraic independence and products of Drinfeld modules. **97k:11110**
Xing, Chaoping (*with* Niederreiter, Harald) Modules de Drinfel'd et courbes algébriques ayant beaucoup de points rationnels. (English and French summaries) [Drinfel'd modules and algebraic curves with many rational points] **97d:11098**

11G10 Abelian varieties of dimension > 1 [see also 14Kxx]

Bertrand, Daniel Minimal heights and polarizations on group varieties. **97a:11091**
Coates, J. (*with* Greenberg, Ralph) Kummer theory for abelian varieties over local fields. **97b:11079**
Greenberg, Ralph *see* **Coates, J., 97b:11079**
Hironaka, Eriko Torsion points on an algebraic subset of an affine torus. **97m:11081**
Masser, D. W. (*with* Wüstholz, G.) Refinements of the Tate conjecture for abelian varieties. **97a:11092**
— Specializations of endomorphism rings of abelian varieties. (English and French summaries) **97k:11093**
Noot, Rutger Abelian varieties—Galois representation and properties of ordinary reduction. **97a:11093**
Schaefer, Edward F. Class groups and Selmer groups. (English summary) **97e:11068**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Connectedness results for l-adic representations associated to abelian varieties. **97d:11097**
— (*with* Zarkhin, Yu. G.) Variations on a theme of Minkowski and Serre. (English summary) **97c:11065**
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— (*with* Pink, R.) Abelian varieties, l-adic representations, and l-independence. **97e:14057**
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11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

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11G16 Elliptic and modular units [see also 11R27]

Hajir, Farshid On units related to the arithmetic of elliptic curves with complex multiplication. **97i:11066**
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Hasegawa, Yuji Table of quotient curves of modular curves $X_0(N)$ with genus 2. **97e:11071**
— (*with* Hashimoto, Ki-ichiro) Hyperelliptic modular curves $X_0^*(N)$ with square-free levels. **97m:11082**
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Merel, Loïc Homologie des courbes modulaires affines et paramétrisations modulaires. [Homology of affine modular curves and modular parametrizations] **97a:11094**
— L'accouplement de Weil entre le sous-groupe de Shimura et le sous-groupe cuspidal de $J_0(p)$. [Weil pairing of the Shimura subgroup and the cuspidal subgroup of $J_0(p)$] **97f:11045**
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Pfau, Matthias The conjecture of Langlands and Rapoport for certain Shimura varieties of non-rational weight. **97a:11095**
Ribet, Kenneth A. Irreducible Galois representations arising from component groups of Jacobians. **97h:11059**
Saby, Nicolas Théorie d'Iwasawa géométrique: un théorème de comparaison. (English and French summaries) [Geometric Iwasawa theory: a comparison theorem] **97f:11046**
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Fried, Michael D. Introduction to modular towers: generalizing dihedral group–modular curve connections. (English summary) **97a:11070**
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Oesterlé, Joseph Travaux de Wiles (et Taylor, ...). II. (French summary) [Works of Wiles (and Taylor ...). II] **97m:11077**
Rapoport, Michael (*with* Zink, Th.) ★ Period spaces for p-divisible groups. **97f:14023**
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11G20 Curves over finite and local fields [see also 14H25]

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de Boer, Mario A. MDS codes from hyperelliptic curves. (English summary) **97h:11061**
Cheon, J. (*with* Hahn, Sang-Geun) Division polynomials of elliptic curves over finite fields. (English summary) **97j:11030**
Duursma, Iwan Class numbers for some hyperelliptic curves. (English summary) **97g:11062**
Garcia, Arnaldo (*with* Stichtenoth, Henning) Asymptotically good towers of function fields over finite fields. (English and French summaries) **97e:11072**
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van der Geer, Gerard (*with* van der Vlugt, Marcel) Quadratic forms, generalized Hamming weights of codes and curves with many points. (English summary) **97i:11068**
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Margolin, G. L. *see* **Yanchevskiĭ, V. I., 97c:11066a** *and* **97c:11066b**
Morain, François Calcul du nombre de points sur une courbe elliptique dans un corps fini: aspects algorithmiques. (English and French summaries) [Computing the number of points on an elliptic curve over a finite field: algorithmic aspects] **97i:11069**
Pacheco, Amilcar Unramified Galois coverings of algebraic curves. (English summary) **97h:11063**
Pellikaan, Ruud On special divisors and the two variable zeta function of algebraic curves over finite fields. (English summary) **97g:11063**
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Reversat, Marc Sur les revêtements de Schottky des courbes modulaires de Drinfeld. [Schottky coverings of Drinfel'd modular curves] **97e:11073**
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Berry, T. G. On the nonexistence of certain geometric MDS codes. **97g:94028**
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Chiarellotto, Bruno (*with* Christol, Gilles) On overconvergent isocrystals and F-isocrystals of rank one. **97b:14021**
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Crew, Richard The differential Galois theory of regular singular p-adic differential equations. **97g:14018**
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Cherdieu, Jean Pierre (*with* Rolland, Robert) On the number of points of some hypersurfaces in $\mathbf{F}_q^n$. (English summary) **97h:11064**
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— (*with* Yui, Noriko) "Brauer numbers" of twisted Fermat motives. **97k:11094**
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11G35 Varieties over global fields [see also 14G25]

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Borovoi, M. V. The Brauer-Manin obstructions for homogeneous spaces with connected or abelian stabilizer. **97g:11042**
Bost, J.-B. Intrinsic heights of stable varieties and abelian varieties. **97j:14025**
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Coray, Daniel (*with* Manoil, Constantin) On large Picard groups and the Hasse principle for curves and $K3$ surfaces. **97j:14038**
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Saitô, Shûji *see* **Langer, Andreas, 97m:14005**
Satgé, Ph. Questions arithmétiques liées au théorème de Poncelet. [Arithmetical questions associated with the Poncelet theorem] **97b:14033**
Suresh, V. Zero cycles on conic fibrations and a conjecture of Bloch. (English summary) **97m:14007**
Tschinkel, Yu. *see* **Batyrev, V. V., 97a:14021** *and* **97j:14023**
Voloch, José Felipe *see* **Abramovich, Dan, 97e:14031**
Wang, Julie Tzu-Yueh The truncated second main theorem of function fields. (English summary) **97c:11074**
— An effective Roth's theorem for function fields. (English summary) **97m:11096**
Wang, Lan² Rational points and canonical heights on $K3$-surfaces in $\mathbf{P}^1 \times \mathbf{P}^1 \times \mathbf{P}^1$. (English summary) **97a:14023**

11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

Aoki, Noboru Introduction to the work of Kolyvagin as it relates to the Birch-Swinnerton-Dyer conjecture. (Japanese) (*see* **97f:11002**)
Bertolini, Massimo (*with* Darmon, Henri) Derived p-adic heights. **97h:11067**
— (*with* Darmon, Henri) Heegner points on Mumford-Tate curves. **97k:11100**
Chamizo, Fernando (*with* Iwaniec, Henryk) Estimates for L-functions associated with some elliptic curves. **97m:11085**
Darmon, Henri *see* **Bertolini, Massimo, 97h:11067** *and* **97k:11100**
Deninger, Christopher Deligne periods of mixed motives, K-theory and the entropy of certain $\mathbf{Z}^n$-actions. **97k:11101**
Feng, Keqin Non-congruent numbers, odd graphs and the Birch-Swinnerton-Dyer conjecture. **97e:11077**
Geisser, Thomas p-adic K-theory of Hecke characters of imaginary quadratic fields and an analogue of Beilinson's conjectures. **97m:11086**
Goldfeld, Dorian (*with* Szpiro, Lucien) Bounds for the order of the Tate-Shafarevich group. (English summary) **97a:11102**
Gusić, Ivica Some theorems on equality of L-functions of elliptic curves. (English summary) **97f:11072**
(Ishida, Nobuhiko) *see* **Nagao, Koh-ichi, 97k:11102**
(Ishikawa, Tsuneo) *see* **Nagao, Koh-ichi, 97k:11102**
Iwaniec, Henryk *see* **Chamizo, Fernando, 97m:11085**
Kohnen, Winfried Elliptic curves and automorphic forms. **97j:11031**
McConnell, Gary On the Iwasawa theory of CM elliptic curves at supersingular primes. **97b:11086**
Monsky, Paul Generalizing the Birch-Stephens theorem. I. Modular curves. **97a:11103**
Nagao, Koh-ichi $\mathbf{Q}(T)$-rank of elliptic curves and certain limit coming from the local points. **97k:11102**
Nakajima, Shoichi Introduction to the Birch-Swinnerton-Dyer conjecture. (Japanese) (*see* **97f:11002**)
Pacheco, Amílcar Rational points on Igusa curves and L-functions of symmetric representations. (English summary) **97e:11078**
Rubin, Karl Euler systems and exact formulas in number theory. **97a:11104**
Saito, Takeshi The sign of the functional equation of the Hasse-Weil L-function. (Japanese) **97i:11073**
Stark, H. M. On the determination of an L-function from one value. **97g:11068**
Sugimoto, Shin Introduction to the Bloch-Kato conjecture. II. (Japanese) (*see* **97f:11002**)
Szpiro, Lucien *see* **Goldfeld, Dorian, 97a:11102**
Tsuzuki, Nobuo Introduction to the Bloch-Kato conjecture. I. The theory over non-Archimedean local fields. (Japanese) (*see* **97f:11002**)
Wan, Da Qing L-functions of algebraic varieties over finite fields: rationality, meromorphy and entireness. (English summary) **97m:11087**
Zhang, Shaowei The nonvanishing of $L(1)$ for the L-series of some elliptic curves. (English and Chinese summaries) **97a:11105**
Zhao, Chunlai A criterion for elliptic curves with lowest 2-power in $L(1)$. (English summary) **97m:11088**

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Anderson, Greg W. Log-algebraicity of twisted A-harmonic series and special values of L-series in characteristic p. (English summary) **97h:11058**
Bertolini, Massimo (*with* Canuto, Giuseppe) The Shimura-Taniyama-Weil conjecture. (Italian. English summary) **97e:11061**
Borel, Armand Values of zeta-functions at integers, cohomology and polylogarithms. **97a:19005**
Canuto, Giuseppe *see* **Bertolini, Massimo, 97e:11061**
Cipra, Barry Fermat prover points to next challenges. **97e:11002**
Dummigan, Neil The determinants of certain Mordell-Weil lattices. **97a:11083**
Duursma, Iwan Class numbers for some hyperelliptic curves. (English summary) **97g:11062**
Guo, Li¹ On the Bloch-Kato conjecture for Hecke L-functions. **97c:11100**
Kato, Kazuya Elliptic curves: Iwasawa's theory of automorphic forms. (Japanese) (*see* **97f:11002**)
Kimura, Ken-Ichiro K_2 of a Fermat quotient and the value of its L-function. (English summary) **97h:19011**
Kurihara, Masato An outline of generalized Iwasawa theory. (Japanese) (*see* **97f:11002**)
Moroz, B. Z. Exercises in analytic arithmetic on an algebraic torus. (English summary) **97b:11137**
Pellikaan, Ruud On special divisors and the two variable zeta function of algebraic curves over finite fields. (English summary) **97g:11063**
Rohrlich, David E. Galois theory, elliptic curves, and root numbers. **97m:11075**
Schmitt, S. Computation of the Selmer groups of certain parameterized elliptic curves. **97k:11087**
Scholl, A. J. Vanishing cycles and non-classical parabolic cohomology. **97d:11089**
Schröter, Martin ★ Über Kurokawa-Tensorprodukte von L-Reihen. (German) [On Kurokawa tensor products of L-series] **97g:11094**
Ulmer, Douglas L. A construction of local points on elliptic curves over modular curves. **97b:11076**
Wan, Da Qing Global zeta functions over number fields and function fields. (English summary) **97d:11175**
— Meromorphic continuation of L-functions of p-adic representations. **97c:14021**

11G45 Geometric class field theory [see also 11R37, 14C35, 19F05]

Gulетskiĭ, V. I. (*with* Yanchevskiĭ, V. I.) Reciprocity laws in Brauer groups of function fields of elliptic curves. (Russian. English and Russian summaries) **97h:11068**
Kapranov, M. M. Analogies between the Langlands correspondence and topological quantum field theory. **97c:11069**
Yanchevskiĭ, V. I. *see* **Gulетskiĭ, V. I., 97h:11068**

Items with secondary classifications in 11G45

Colliot-Thélène, Jean-Louis On the reciprocity sequence in the higher class field theory of function fields. (English summary) **97k:14019**
— (*with* Saitô, Shûji) Zéro-cycles sur les variétés p-adiques et groupe de Brauer. [Zero-cycles on p-adic varieties and Brauer group] **97e:14014**
— *see also* **Kahn, Bruno, 97k:14020**
Kahn, Bruno Résultats de "pureté" pour les variétés lisses sur un corps fini. (English summary) ["Purity" results for smooth varieties over a finite field] **97k:14020**
Nakajima, Hiraku Instantons and affine Lie algebras. (English summary) **97j:17027**
Saitô, Shûji *see* **Colliot-Thélène, Jean-Louis, 97e:14014**
Spieß, Michael Artin-Verdier duality for arithmetic surfaces. **97i:14019**

11G99 None of the above, but in this section

Items with secondary classifications in 11G99

Bauer, Michel (*with* Itzykson, C.) Triangulations. (French) **97a:14027**
Itzykson, C. *see* **Bauer, Michel, 97a:14027**
Matsumoto, Makoto Galois representations on profinite braid groups on curves. (English summary) **97b:14016**
Morton, Patrick On certain algebraic curves related to polynomial maps. (English summary) **97m:14030**

11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

Cassels, J. W. S. ★ An introduction to the geometry of numbers. **97i:11074**
Gruber, Peter M. An overview of the geometry of numbers including aspects of construction and computation. (Italian) **97d:11105**
Wills, Jörg M. The idea of geometry of numbers. **97d:11106**

11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

Baake, Michael *see* **Pleasants, Peter A. B.; et al., 97f:11050**
Batut, Christian (*with* Quebbemann, Heinz-Georg; Scharlau, Rudolf) Computations of cyclotomic lattices. (English summary) **97a:11106**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) The view-obstruction problem for spheres in $\mathbf{R}^3$. (English summary) **97g:11069**
Elkies, Noam D. (*with* Gross, Benedict H.) The exceptional cone and the Leech lattice. **97g:11070**
Gross, Benedict H. *see* **Elkies, Noam D., 97g:11070**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 97g:11069**
Korkina, E. I. The simplest 2-dimensional continued fraction. **97j:11032**
Kühnlein, Stefan Partial solution of a conjecture of Schmutz. **97h:11069**
Loyer, Pierre (*with* Solé, Patrick) Les réseaux BW_{32} et U_{32} sont équivalents. (French summary) [The lattices BW_{32} and U_{32} are equivalent] **97d:11107**
Moshchevitin, N. G. Defect of an admissible octahedron in a lattice. (Russian. Russian summary) **97a:11107**
Pleasants, Peter A. B. (*with* Baake, Michael; Roth, Johannes) Planar coincidences for N-fold symmetry. (English summary) **97f:11050**
Quebbemann, Heinz-Georg *see* **Batut, Christian; et al., 97a:11106**
Radulescu, O. (*with* Warrington, D. H.) Arithmetic properties of module directions in quasicrystals, coincidence modules and coincidence quasilattices. (English summary) **97f:11049**
Roth, Johannes *see* **Pleasants, Peter A. B.; et al., 97f:11050**
Scharlau, Rudolf *see* **Batut, Christian; et al., 97a:11106**
Solé, Patrick *see* **Loyer, Pierre, 97d:11107**
Uhrin, Béla Two identities in geometry of numbers with applications. **97e:11079**
— New lower bounds for the number of lattice points in a difference set. (English summary) **97k:11103**
Warrington, D. H. *see* **Radulescu, O., 97f:11049**
Wilker, J. B. *see* **Dumir, V. C.; et al., 97g:11069**

Items with secondary classifications in 11H06

Banaszczyk, Wojciech Inequalities for convex bodies and polar reciprocal lattices in $\mathbf{R}^n$. II. Application of K-convexity. (English summary) **97h:11073**
Bean, Michael A. The practical computation of areas associated with binary quartic forms. (English summary) **97i:11029**
Brion, Michel Polytopes convexes entiers. [Integral convex polytopes] **97d:52022**
Chapman, Robin J. (*with* Solé, Patrick) Universal codes and unimodular lattices. (English and French summaries) **97k:94045**

Diaz, Ricardo (*with* Robins, Sinai) The Ehrhart polynomial of a lattice n-simplex. (English summary) **97h:11113**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) View-obstruction and a conjecture of Schoenberg. (English summary) **97e:52023**
— (*with* Hans-Gill, R. J.; Wilker, J. B.) Contributions to a general theory of view-obstruction problems. II. (English summary) **97e:52024**
Elekes, G. (*with* Erdős, Paul[1]) Similar configurations and pseudo grids. **97b:52020**
Erdős, Paul[1] *see* **Elekes, G., 97b:52020**
Esselmann, Frank Über die maximale Dimension von Lorentz-Gittern mit coendlicher Spiegelungsgruppe. (English summary) [On the maximal dimension of Lorentzian lattices with cofinite reflection group] **97g:11073**
Flahive, M. E. (*with* Woods, A. C.) Small values of indefinite binary quadratic forms. (English summary) **97d:11109**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 97e:52023** *and* **97e:52024**
Horváth, Ákos G. On the Dirichlet-Voronoi cell of unimodular lattices. (English summary) **97g:11072**
James, Donald G. The number of embeddings of quadratic Z-lattices. (English summary) **97c:11045**
Kalb, Michael (*with* Schnorr, Claus P.) The generalized Gauss reduction algorithm. (English summary) **97h:11157**
Kołodziejczyk, Krzysztof A new formula for the volume of lattice polyhedra. (English summary) **97k:52010**
Lagarias, Jeffrey C. (*with* Wang, Yang[3]) Haar bases for $L^2(\mathbf{R}^n)$ and algebraic number theory. (English summary) **97a:42027**
Montague, Paul Stewart Ternary codes and Z_3-orbifold constructions of conformal field theories. (English summary) **97j:81327**
(Moree, Pieter) *see* **Pless, Vera; et al., 97m:94036**
Pless, Vera (*with* Solé, Patrick; Qian, Zhongqiang) Cyclic self-dual Z_4-codes. (English summary) **97m:94036**
Qian, Zhongqiang *see* **Pless, Vera; et al., 97m:94036**
Robins, Sinai *see* **Diaz, Ricardo, 97h:11113**
Schnorr, Claus P. *see* **Kalb, Michael, 97h:11157**
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Uhrin, Béla Inner aperiodicities and partitions of sets. (English summary) **97g:52038**
Wang, Yang[3] *see* **Lagarias, Jeffrey C., 97a:42027**
Wilker, J. B. *see* **Dumir, V. C.; et al., 97e:52023** *and* **97e:52024**
Wills, Jörg M. Isoperimetric inequalities with lattice constraints. **97f:52025**
Woods, A. C. *see* **Flahive, M. E., 97d:11109**
Zhu, Fu-Zu On indecomposable definite unimodular Hermitian forms. (English summary) **97f:11025**
— On the construction of indecomposable positive definite Hermitian forms over imaginary quadratic fields. (English summary) **97m:11054**

11H16 Nonconvex bodies

Masser, D. W. A note on Siegel's lemma. **97m:11089**

11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

Bergé, Anne-Marie (*with* Martinet, Jacques) Densité dans des familles de réseaux. Application aux réseaux isoduaux. (English and French summaries) [Density in families of lattices. Application to isodual lattices] **97a:11108**
Conway, John H. Sphere packings, lattices, codes, and greed. **97d:11108**
— (*with* Sloane, N. J. A.) The antipode construction for sphere packings. (English summary) **97a:11109**
Martinet, Jacques *see* **Bergé, Anne-Marie, 97a:11108**
Rajan, Dayanand S. (*with* Shende, Anil M.) A characterization of root lattices. (English summary) **97j:11033**
— (*with* Shende, Anil M.) Root lattices are efficiently generated. (English summary) **97m:11090**
Ramharter, G. On Mordell's inverse problem in dimension three. (English summary) **97h:11070**
Shende, Anil M. *see* **Rajan, Dayanand S., 97j:11033** *and* **97m:11090**
Sloane, N. J. A. *see* **Conway, John H., 97a:11109**
Tsfasman, M. A. Algebraic geometry lattices and codes. **97m:11091**
— Algebraic curves and sphere packings. (English summary) **97g:11071**
Zong, Chuan Ming The kissing numbers of tetrahedra. (English summary) **97c:11070**

Items with secondary classifications in 11H31

Blake, Ian F. (*with* Tarokh, Vahid) On the trellis complexity of the densest lattice packings in $\mathbf{R}^n$. (English summary) **97f:94012**
Tarokh, Vahid *see* **Blake, Ian F., 97f:94012**
Vassallo, Salvatore (*with* Wills, Jörg M.) Covering sets for plane lattices. (English summary) **97c:52035**
Wills, Jörg M. *see* **Vassallo, Salvatore, 97c:52035**

11H46 Products of linear forms

Bean, Michael A. (*with* Thunder, Jeffrey Lin) Isoperimetric inequalities for volumes associated with decomposable forms. (English summary) **97b:11087**
Thunder, Jeffrey Lin *see* **Bean, Michael A., 97b:11087**

Items with secondary classifications in 11H46

Ramharter, G. On Mordell's inverse problem in dimension three. (English summary) **97h:11070**

11H50 Minima of forms

Baeza, Ricardo (*with* Icaza, María Inés) On Humbert-Minkowski's constant for a number field. (English summary) **97m:11092**
Flahive, M. E. (*with* Woods, A. C.) Small values of indefinite binary quadratic forms. (English summary) **97d:11109**
Horváth, Ákos G. On the number of the minima of N-lattices. **97a:11110**
— On the Dirichlet-Voronoi cell of unimodular lattices. (English summary) **97g:11072**
Icaza, María Inés *see* **Baeza, Ricardo, 97m:11092**
Kitaoka, Yoshiyuki The minimum and the primitive representation of positive definite quadratic forms. II. **97b:11088**
Woods, A. C. *see* **Flahive, M. E., 97d:11109**

Items with secondary classifications in 11H50

Elkies, Noam D. (*with* Gross, Benedict H.) The exceptional cone and the Leech lattice. **97g:11070**
Gross, Benedict H. *see* **Elkies, Noam D., 97g:11070**
Icaza, María Inés Hermite constant and extreme forms for algebraic number fields. **97j:11034**
Raka, Madhu (*with* Rani, Urmila) Positive values of inhomogeneous indefinite ternary quadratic forms of type (2, 1). (English summary) **97h:11072**
Rani, Urmila *see* **Raka, Madhu, 97h:11072**
Roy, Damien (*with* Thunder, Jeffrey Lin) An absolute Siegel's lemma. **97h:11075**
Schmutz Schaller, Paul Systoles of arithmetic surfaces and the Markoff spectrum. **97b:11090**
Thunder, Jeffrey Lin An adelic Minkowski-Hlawka theorem and an application to Siegel's lemma. **97f:11078**
— *see also* **Roy, Damien, 97h:11075**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Arakawa, Tsuneo Minkowski-Siegel's formula for certain orthogonal groups of odd degree and unimodular lattices. **97f:11075**
Bergé, Anne-Marie (*with* Martinet, Jacques) Sur la classification des réseaux eutactiques. [On the classification of eutactic lattices] **97f:11076**
Coulangeon, Renaud Réseaux k-extrêmes. [k-extreme lattices] **97f:11077**
Icaza, María Inés Hermite constant and extreme forms for algebraic number fields. **97j:11034**
Ivanyos, Gábor (*with* Szántó, Ágnes) Lattice basis reduction for indefinite forms and an application. (English summary) **97c:11071**
Jaquet-Chiffelle, David-Olivier Trois théorèmes de finitude pour les G-formes. (English and French summaries) [Three finiteness theorems for G-forms] **97h:11071**
Martinet, Jacques *see* **Bergé, Anne-Marie, 97f:11076**
Raka, Madhu (*with* Rani, Urmila) Positive values of inhomogeneous indefinite ternary quadratic forms of type (2, 1). (English summary) **97h:11072**
Rani, Urmila *see* **Raka, Madhu, 97h:11072**
Shushbaev, S. Sh. On a Voronoĭ neighborhood of a perfect form. (Russian. Russian summary) **97f:11051**
— Voronoĭ neighborhoods of simplicial perfect forms of eight variables. New perfect forms. (Russian. English and Uzbek summaries) **97j:11035**
Szántó, Ágnes *see* **Ivanyos, Gábor, 97c:11071**

Items with secondary classifications in 11H55

Baeza, Ricardo (*with* Icaza, María Inés) On Humbert-Minkowski's constant for a number field. (English summary) **97m:11092**
Flahive, M. E. (*with* Woods, A. C.) Small values of indefinite binary quadratic forms. (English summary) **97d:11109**
Gerstein, Larry J. Nearly unimodular quadratic forms. **97a:11059**
von Höhne, Hans-Joachim On weakly non-negative unit forms and tame algebras. **97h:16018**
Horváth, Ákos G. On the number of the minima of N-lattices. **97a:11110**
Icaza, María Inés *see* **Baeza, Ricardo, 97m:11092**
Katok, Svetlana Coding of closed geodesics after Gauss and Morse. (English summary) **97j:20045**
Korkina, E. I. The simplest 2-dimensional continued fraction. **97j:11032**
Woods, A. C. *see* **Flahive, M. E., 97d:11109**

11H56 Automorphism groups of lattices

Blaschke, Britta *see* **Scharlau, Rudolf, 97c:11072**
Esselmann, Frank Über die maximale Dimension von Lorentz-Gittern mit coendlicher Spiegelungsgruppe. (English summary) [On the maximal dimension of Lorentzian lattices with cofinite reflection group] **97g:11073**
Korkina, E. I. Two-dimensional continued fractions. The simplest examples. (Russian) **97h:11104**
Scharlau, Rudolf (*with* Blaschke, Britta) Reflective integral lattices. (English summary) **97c:11072**

11H60 Mean value and transfer theorems

Banaszczyk, Wojciech Inequalities for convex bodies and polar reciprocal lattices in $\mathbf{R}^n$. II. Application of K-convexity. (English summary) **97h:11073**

11H99 None of the above, but in this section

Adhikari, Sukumar Das (*with* Balasubramanian, Ramachandran) On a question regarding visibility of lattice points. **97k:11105**
Balasubramanian, Ramachandran *see* **Adhikari, Sukumar Das, 97k:11105**

Items with secondary classifications in 11H99

Wills, Jörg M. Geometry of numbers and integer programming. **97f:90056**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

11J04 Homogeneous approximation to one number

Bernik, V. I. (*with* Marozava, I. M.) R. Baker's conjecture and regular sets of algebraic numbers with a restriction on the value of the derivative. (Belorussian. English and Russian summaries) **97m:11093**
Elsner, C. On the approximation of irrational numbers with rationals restricted by congruence relations. **97a:11111**
Marozava, I. M. *see* **Bernik, V. I., 97m:11093**
Tong, Jingcheng The best Diophantine approximation functions by continued fractions. (English summary) **97c:11073**

Items with secondary classifications in 11J04

Jaffard, Stéphane The spectrum of singularities of Riemann's function. (English summary) **97g:26006**
Kühnlein, Stefan On a measure-theoretic aspect of Diophantine approximation. **97i:11079**

11J06 Markov and Lagrange spectra and generalizations

Baragar, Arthur On the unicity conjecture for Markoff numbers. (English summary) **97d:11110**
Burger, Edward B. Uniformly approximable numbers and the uniform approximation spectrum. (English summary) **97h:11074**
Chen, Yong-Gao View-obstruction problems and Kronecker's theorem. II. (English summary) **97f:11052**
Cusick, Thomas W. (*with* Moran, William; Pollington, Andrew D.) Hall's ray in inhomogeneous Diophantine approximation. (English summary) **97a:11112**
Ji, Guangheng (*with* Lu, Hong Wen) On dispersion and Markov constants. (English summary) **97b:11089**
Lu, Hong Wen *see* **Ji, Guangheng, 97b:11089**
Moran, William *see* **Cusick, Thomas W.; et al., 97a:11112**
Pollington, Andrew D. *see* **Cusick, Thomas W.; et al., 97a:11112**
Schmutz Schaller, Paul Systoles of arithmetic surfaces and the Markoff spectrum. **97b:11090**

Items with secondary classifications in 11J06

Bowditch, B. H. A variation of McShane's identity for once-punctured torus bundles. **97i:58133**
Flahive, M. E. (*with* Woods, A. C.) Small values of indefinite binary quadratic forms. (English summary) **97d:11109**
Tan, Ser-Peow Self-intersections of curves on surfaces. (English summary) **97g:57001**
Woods, A. C. *see* **Flahive, M. E., 97d:11109**

11J13 Simultaneous homogeneous approximation, linear forms

Roy, Damien (*with* Thunder, Jeffrey Lin) An absolute Siegel's lemma. **97h:11075**
Thunder, Jeffrey Lin An adelic Minkowski-Hlawka theorem and an application to Siegel's lemma. **97i:11078**
— *see also* **Roy, Damien, 97h:11075**
Xu, Guangshan Simultaneous approximation to values of exponential function at algebraic points. (English summary) **97a:11113**

Items with secondary classifications in 11J13

Borbat, V. N. Polynomials with a small derivative in the root, and Diophantine approximations in the complex number field. (Russian. English and Russian summaries) **97m:11100**
Evertse, Jan-Hendrik An improvement of the quantitative subspace theorem. **97e:11080**
Moshchevitin, N. G. Distribution of values of linear functions and the asymptotic behavior of trajectories of some dynamical systems. (Russian. Russian summary) **97b:11102**
Vojta, Paul On Cartan's theorem and Cartan's conjecture. (English summary) **97m:32041**

11J20 Inhomogeneous linear forms

Items with secondary classifications in 11J20

Cusick, Thomas W. (*with* Moran, William; Pollington, Andrew D.) Hall's ray in inhomogeneous Diophantine approximation. (English summary) **97a:11112**
Moran, William *see* **Cusick, Thomas W.; et al., 97a:11112**
Pollington, Andrew D. *see* **Cusick, Thomas W.; et al., 97a:11112**

11J25 Diophantine inequalities [see also 11D75]

Chevallier, Nicolas Meilleures approximations d'un élément du tore $\mathbf{T}^2$ et géométrie de la suite des multiples de cet élément. [Best approximations of an element of the torus $\mathbf{T}^2$ and geometry of its sequence of multiples] **97m:11094**
Hooley, Christopher On an elementary inequality in the theory of Diophantine approximation. **97m:11095**
Tong, Jingcheng Robinson's theorem on asymmetric Diophantine approximation. (English summary) **97a:11114**
Wang, Julie Tzu-Yueh The truncated second main theorem of function fields. (English summary) **97c:11074**
— An effective Roth's theorem for function fields. (English summary) **97m:11096**

Items with secondary classifications in 11J25

Brüdern, Jörg Cubic Diophantine inequalities. II. **97c:11044**
Bugeaud, Yann Sur la distance entre deux puissances pures. (English and French summaries) [On the difference between two perfect powers] **97i:11030**
Burger, Edward B. Uniformly approximable numbers and the uniform approximation spectrum. (English summary) **97h:11074**
Dani, S. G. Flows on homogeneous spaces and Diophantine approximation. **97g:22008**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) View-obstruction and a conjecture of Schoenberg. (English summary) **97e:52023**
— (*with* Hans-Gill, R. J.; Wilker, J. B.) Contributions to a general theory of view-obstruction problems. II. (English summary) **97e:52024**
— (*with* Hans-Gill, R. J.; Wilker, J. B.) The view-obstruction problem for spheres in $\mathbf{R}^5$. (English summary) **97g:11069**
Evertse, Jan-Hendrik The number of solutions of the Thue-Mahler equation. (English summary) **97m:11046**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 97e:52023; 97e:52024** *and* **97g:11069**
Silverman, Joseph H. Small Salem numbers, exceptional units, and Lehmer's conjecture. (English summary) **97k:11152**
Wilker, J. B. *see* **Dumir, V. C.; et al., 97e:52023; 97e:52024** *and* **97g:11069**

11J54 Small fractional parts of polynomials and generalizations

Abercrombie, A. G. Reconstructing curves from sets of quantized observations. **97b:11091**
Habsieger, Laurent (*with* Salvy, Bruno) On integer Chebyshev polynomials. (English summary) **97f:11053**
Harman, Glyn A problem of Hooley in Diophantine approximation. **97g:11074**
Huxley, Martin N. The integer points close to a curve. II. **97h:11076**
Salvy, Bruno *see* **Habsieger, Laurent, 97f:11053**

Items with secondary classifications in 11J54

Huxley, Martin N. ★ Area, lattice points, and exponential sums. **97g:11088**

11J61 Approximation in non-Archimedean valuations

Berthé, Valérie Combinaisons linéaires de $\zeta(s)/\Pi^s$ sur $\mathbf{F}_q(x)$, pour $1 \le s \le q-2$. (English and French summaries) [Linear combinations of $\zeta(s)/\Pi^s$ over $\mathbf{F}_q(x)$, for $1 \le s \le q-2$] **97c:11075**
Burger, Edward B. On Liouville decompositions in local fields. (English summary) **97a:11115**
Dubois, Eugène On Mahler's classification in Laurent series fields. (English summary) **97m:11097**
Guntermann, Nicole Approximation durch algebraische Zahlen beschränkten Grades im Körper der formalen Laurentreihen. (English summary) [Approximation by algebraic numbers of bounded degree in the field of formal Laurent series] **97m:11098**
Lasjaunias, Alain (*with* de Mathan, Bernard) Thue's theorem in positive characteristic. **97c:11076**
de Mathan, Bernard *see* **Lasjaunias, Alain, 97c:11076**
Rémond, Gaël (*with* Urfels, Florent) Approximation diophantienne de logarithmes elliptiques p-adiques. (English and French summaries) [Diophantine approximation of p-adic elliptic logarithms] **97f:11054**
Roy, Damien On the v-adic independence of algebraic numbers. **97a:11116**
Urfels, Florent *see* **Rémond, Gaël, 97f:11054**

Items with secondary classifications in 11J61

Amou, Masaaki A metrical result on transcendence measures in certain fields. (English summary) **97f:11060**
Denis, Laurent Un critère de transcendance en caractéristique finie. [A transcendence criterion in finite characteristic] **97e:11084**
Duverney, Daniel Propriétés arithmétiques d'un produit infini lié aux fonctions thêta. [Arithmetical properties of an infinite product associated with theta functions] **97i:11081**
Roy, Damien (*with* Thunder, Jeffrey Lin) An absolute Siegel's lemma. **97h:11075**
Thunder, Jeffrey Lin *see* **Roy, Damien, 97h:11075**

11J68 Approximation to algebraic numbers

Amoroso, Francesco Algebraic numbers close to 1 and variants of Mahler's measure. (English summary) **97g:11075**
Bombieri, Enrico (*with* Hunt, David C.; van der Poorten, Alfred J.) Determinants in the study of Thue's method and curves with prescribed singularities. (English summary) **97b:11092**
Dodson, M. M. (*with* Rynne, Bryan P.; Vickers, J. A. G.) Simultaneous Diophantine approximation and asymptotic formulae on manifolds. (English summary) **97f:11055**
Evertse, Jan-Hendrik An improvement of the quantitative subspace theorem. **97e:11080**
Hunt, David C. *see* **Bombieri, Enrico; et al., 97b:11092**
Kühnlein, Stefan On a measure-theoretic aspect of Diophantine approximation. **97i:11079**
van der Poorten, Alfred J. *see* **Bombieri, Enrico; et al., 97b:11092**
Ru, Min (*with* Vojta, Paul) Schmidt's subspace theorem with moving targets. **97g:11076**
Rynne, Bryan P. *see* **Dodson, M. M.; et al., 97f:11055**
Vickers, J. A. G. *see* **Dodson, M. M.; et al., 97f:11055**
Vojta, Paul *see* **Ru, Min, 97g:11076**

Items with secondary classifications in 11J68

Bernik, V. I. (*with* Marozava, I. M.) R. Baker's conjecture and regular sets of algebraic numbers with a restriction on the value of the derivative. (Belorussian. English and Russian summaries) **97m:11093**
Grabner, Peter J. (*with* Kiss, Péter; Tichy, Robert F.) Diophantine approximation in terms of linear recurrent sequences. (English summary) **97h:11085**
Kiss, Péter *see* **Grabner, Peter J.; et al., 97h:11085**
Lemmermeyer, F. *see* **Mignotte, Maurice; et al., 97k:11039**
Marozava, I. M. *see* **Bernik, V. I., 97m:11093**
Mignotte, Maurice (*with* Pethő, Attila; Lemmermeyer, F.) On the family of Thue equations $x^3-(n-1)x^2y-(n+2)xy^2-y^3=k$. **97k:11039**
Pethő, Attila *see* **Mignotte, Maurice; et al., 97k:11039**
Schlickewei, Hans Peter Multiplicities of recurrence sequences. **97g:11031**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97h:11085**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Adam, Brigitte (*with* Rhin, Georges) Algorithmes des fractions continues et de Jacobi-Perron. (English summary) [Continued fraction and Jacobi-Perron algorithms] **97b:11093**

Allouche, Jean-Paul (*with* Lubiw, Anna; Mendès France, Michel; van der Poorten, Alfred J.; Shallit, Jeffrey) Convergents of folded continued fractions. **97g:11077**

Faivre, C. The Lévy constant of an irrational number. **97j:11036**

Grisel, Guillaume Longueur de la fraction continue des puissances d'une fraction rationnelle. (English and French summaries) [Length of the continued fraction of the powers of a rational fraction] **97b:11094**

Grőchenig, Karlheinz (*with* Haas, Andrew Howard) Backward continued fractions and their invariant measures. (English summary) **97h:11077**

Haas, Andrew Howard *see* **Grőchenig, Karlheinz, 97h:11077**

Komatsu, Takao[2] A certain power series and the inhomogeneous continued fraction expansions. (English summary) **97d:11111**

Kopetzky, Hans Günther (*with* Schnitzer, Franz Josef) Eine geometrische Methode bei der Approximation durch Kettenbrüche nach dem nächsten Ganzen. (English summary) [A geometric method for approximation using nearest integer continued fractions] **97c:11077**

Lubiw, Anna *see* **Allouche, Jean-Paul; et al., 97g:11077**

Mendès France, Michel *see* **Allouche, Jean-Paul; et al., 97g:11077**

van der Poorten, Alfred J. *see* **Allouche, Jean-Paul; et al., 97g:11077**

Rhin, Georges *see* **Adam, Brigitte, 97b:11093**

Schnitzer, Franz Josef *see* **Kopetzky, Hans Günther, 97c:11077**

Shallit, Jeffrey *see* **Allouche, Jean-Paul; et al., 97g:11077**

Items with secondary classifications in 11J70

Burger, Edward B. Uniformly approximable numbers and the uniform approximation spectrum. (English summary) **97h:11074**

Chevallier, Nicolas Meilleures approximations d'un élément du tore $\mathbf{T}^2$ et géométrie de la suite des multiples de cet élément. [Best approximations of an element of the torus $\mathbf{T}^2$ and geometry of its sequence of multiples] **97m:11094**

Cusick, Thomas W. (*with* Moran, William; Pollington, Andrew D.) Hall's ray in inhomogeneous Diophantine approximation. (English summary) **97a:11112**

Elsner, C. On the approximation of irrational numbers with rationals restricted by congruence relations. **97a:11111**

Grőchenig, Karlheinz (*with* Haas, Andrew Howard) Backward continued fractions, Hecke groups and invariant measures for transformations of the interval. (English summary) **97m:58114**

Haas, Andrew Howard *see* **Grőchenig, Karlheinz, 97m:58114**

Ji, Guangheng (*with* Lu, Hong Wen) On dispersion and Markov constants. (English summary) **97b:11089**

Kargaev, P. P. (*with* Zhiglyavskiĭ, A. A.) Approximation of real numbers by rationals: some metric theorems. (English summary) **97k:11109**

Korkina, E. I. Two-dimensional continued fractions. The simplest examples. (Russian) **97k:11104**

Lewittes, Joseph Quadratic irrationals and continued fractions. (English summary) **97m:11014**

Lu, Hong Wen *see* **Ji, Guangheng, 97b:11089**

Moran, William *see* **Cusick, Thomas W.; et al., 97a:11112**

Nakada, Hitoshi Continued fractions, geodesic flows and Ford circles. **97g:11086**

Pollington, Andrew D. *see* **Cusick, Thomas W.; et al., 97a:11112**

van der Poorten, Alfred J. Continued fraction expansions of values of the exponential function and related fun with continued fractions. (English summary) **97f:11011**

Thakur, Dinesh S. Exponential and continued fractions. (English summary) **97h:11145**

Tong, Jingcheng The best Diophantine approximation functions by continued fractions. (English summary) **97c:11073**

— Robinson's theorem on asymmetric Diophantine approximation. (English summary) **97a:11114**

Zhiglyavskiĭ, A. A. *see* **Kargaev, P. P., 97k:11109**

11J71 Distribution modulo one [see also 11K06]

Items with secondary classifications in 11J71

Chevallier, Nicolas Distances dans la suite des multiples d'un point du tore à deux dimensions. [Distances in the sequence of multiples of a point of the torus in two dimensions] **97b:11105**

Harman, Glyn A problem of Hooley in Diophantine approximation. **97g:11074**

Huxley, Martin N. The integer points close to a curve. II. **97h:11076**

11J72 Irrationality; linear independence over a field

Bundschuh, Peter (*with* Waldschmidt, Michel) Errata to the paper: "Irrationality results for theta functions by Gel'fond-Schneider's method" [Acta Arith. **53** (1989), no. 3, 289–307; MR 90m:11106]. **97i:11080**

Duverney, Daniel Propriétés arithmétiques d'un produit infini lié aux fonctions thêta. [Arithmetical properties of an infinite product associated with theta functions] **97i:11081**

— À propos de la série $\sum_{n=1}^{+\infty} x^n/(q^n-1)$. [Concerning the series $\sum_{n=1}^{+\infty} x^n/(q^n-1)$] **97h:11078**

— A criterion of irrationality. (English and French summaries) **97g:11078**

Nesterenko, Yu. V. (*with* Shidlovskiĭ, A. B.) On the linear independence of values of E-functions. (Russian. Russian summary) **97k:11106**

Prévost, M. A new proof of the irrationality of $\zeta(2)$ and $\zeta(3)$ using Padé approximants. (English summary) **97f:11056**

Shidlovskiĭ, A. B. *see* **Nesterenko, Yu. V., 97k:11106**

Väänänen, Keijo Transcendental numbers and complex differential equations. **97a:11117**

Waldschmidt, Michel *see* **Bundschuh, Peter, 97i:11080**

Items with secondary classifications in 11J72

Berthé, Valérie Combinaisons linéaires de $\zeta(s)/\Pi^s$ sur $\mathbf{F}_q(x)$, pour $1 \le s \le q-2$. (English and French summaries) [Linear combinations of $\zeta(s)/\Pi^s$ over $\mathbf{F}_q(x)$, for $1 \le s \le q-2$] **97c:11075**

Denis, Laurent Irrationalité de valeurs associées à l'exponentielle de Carlitz. (English summary) [Irrationality of values associated with the Carlitz exponential] **97k:11089**

11J81 Transcendence (general theory)

Hančl, Jaroslav Transcendental sequences. (English summary) **97k:11107**

Takeuchi, Mamoru A zero estimate for exponential polynomials. **97f:11057**

Waldschmidt, Michel Erratum: "Density of rational points on an algebraic group" [Experiment. Math. **3** (1994), no. 4, 329–352; MR 96h:11071]. (French) **97d:11112**

Items with secondary classifications in 11J81

Amou, Masaaki On Sprindžuk's classification of transcendental numbers. **97e:11081**

Chirskiĭ, V. G. Arithmetic properties of the values of hypergeometric series. (Russian) **97e:11083**

Galochkin, A. I. On the approximation by algebraic numbers of solutions of some equations that contain E-functions. (Russian) **97f:11058**

Nishioka, Kumiko A new proof of Masser's vanishing theorem. (English summary) **97a:11119**

— Algebraic independence of Mahler functions and their values. (English summary) **97c:11078**

Ramachandra, Kanakanahalli Little flowers to I. M. Vinogradov. **97d:11131**

Töpfer, Th. Simultaneous approximation measures for functions satisfying generalized functional equations of Mahler type. **97k:11108**

Tubbs, Robert Analytic subgroups of t-modules. **97i:11064**

Waldschmidt, Michel Dependence of logarithms on commutative algebraic groups. (English summary) **97k:11111**

11J82 Measures of irrationality and of transcendence

Ably, Mohammed Mesure d'approximation simultanée. (English and French summaries) [Simultaneous measure of approximation] **97g:11079**

Amou, Masaaki On Sprindžuk's classification of transcendental numbers. **97e:11081**

Galochkin, A. I. On the approximation by algebraic numbers of solutions of some equations that contain E-functions. (Russian) **97f:11058**

Rhin, Georges (*with* Viola, Carlo) On a permutation group related to $\zeta(2)$. **97m:11099**

Shidlovskiĭ, A. B. On the linear independence of values of E-functions associated with an algebraic equation over the field of rational functions. (Russian) **97a:11118**

Töpfer, Th. Simultaneous approximation measures for functions satisfying generalized functional equations of Mahler type. **97k:11108**

Viola, Carlo *see* **Rhin, Georges, 97m:11099**

Zudilin, V. V. On the irrationality measure of values of G-functions. (Russian. Russian summary) **97f:11059**

Items with secondary classifications in 11J82

Burger, Edward B. On Liouville decompositions in local fields. (English summary) **97a:11115**

Chirskiĭ, V. G. Arithmetic properties of the values of hypergeometric series. (Russian) **97e:11083**

Duverney, Daniel À propos de la série $\sum_{n=1}^{+\infty} x^n/(q^n-1)$. [Concerning the series $\sum_{n=1}^{+\infty} x^n/(q^n-1)$] **97h:11078**

Rémond, Gaël (*with* Urfels, Florent) Approximation diophantienne de logarithmes elliptiques p-adiques. (English and French summaries) [Diophantine approximation of p-adic elliptic logarithms] **97f:11054**

Urfels, Florent *see* **Rémond, Gaël, 97f:11054**

11J83 Metric theory

Amou, Masaaki A metrical result on transcendence measures in certain fields. (English summary) **97f:11060**

Beresnevich, V. (*with* Bernik, V. I.) On a metrical theorem of W. Schmidt. **97b:11095**

Bernik, V. I. *see* **Beresnevich, V., 97b:11095**

Borbat, V. N. Polynomials with a small derivative in the root, and Diophantine approximations in the complex number field. (Russian. English and Russian summaries) **97m:11100**

Kargaev, P. P. (*with* Zhiglyavskiĭ, A. A.) Approximation of real numbers by rationals: some metric theorems. (English summary) **97k:11109**

Kovalevskaya, È. I. Efficient estimates for measures in problems of zero approximation by values of smooth functions. (Russian. English and Russian summaries) **97b:11096**

Zhiglyavskiĭ, A. A. *see* **Kargaev, P. P., 97k:11109**

Items with secondary classifications in 11J83

Amou, Masaaki On Sprindžuk's classification of transcendental numbers. **97e:11081**

Kühnlein, Stefan On a measure-theoretic aspect of Diophantine approximation. **97f:11079**

11J85 Algebraic independence; Gel'fond's method

Nesterenko, Yu. V. Modular functions and transcendence problems. (English and French summaries) **97g:11080**

Nishioka, Kumiko Algebraic independence of Mahler functions and their values. (English summary) **97c:11078**

Shidlovskiĭ, A. B. On the algebraic independence of the values of E-functions connected by algebraic equations over the field of rational functions. (Russian) **97e:11082**

Tanaka, Taka-Aki Algebraic independence of the values of power series generated by linear recurrences. **97b:11097**

Tubbs, Robert Algebraic independence and products of Drinfeld modules. **97k:11110**

Waldschmidt, Michel Dependence of logarithms on commutative algebraic groups. (English summary) **97k:11111**

Items with secondary classifications in 11J85

Ably, Mohammed Mesure d'approximation simultanée. (English and French summaries) [Simultaneous measure of approximation] **97g:11079**
Bundschuh, Peter (*with* Waldschmidt, Michel) Errata to the paper: "Irrationality results for theta functions by Gel'fond-Schneider's method" [Acta Arith. **53** (1989), no. 3, 289–307; MR 90m:11106]. **97i:11080**
Kulagin, V. A. On the algebraic independence of the values of hypergeometric functions of a certain class. (Russian. Russian summary) **97d:11113**
Nishioka, Kumiko A new proof of Masser's vanishing theorem. (English summary) **97a:11119**
Roy, Damien On the v-adic independence of algebraic numbers. **97a:11116**
Waldschmidt, Michel *see* **Bundschuh, Peter, 97i:11080**

11J86 Linear forms in logarithms; Baker's method

Bugeaud, Yann (*with* Mignotte, Maurice; Normandin, Frédéric) Nombres algébriques de petite mesure et formes linéaires en un logarithme. (English and French summaries) [Algebraic numbers of small height and linear forms in one logarithm] **97b:11098**
Mignotte, Maurice *see* **Bugeaud, Yann; et al., 97b:11098**
Normandin, Frédéric *see* **Bugeaud, Yann; et al., 97b:11098**

Items with secondary classifications in 11J86

Bugeaud, Yann (*with* Győry, Kálmán) Bounds for the solutions of unit equations. **97b:11045**
— (*with* Győry, Kálmán) Bounds for the solutions of Thue-Mahler equations and norm form equations. **97b:11046**
— Sur la distance entre deux puissances pures. (English and French summaries) [On the difference between two perfect powers] **97i:11030**
— On the Diophantine equation $x^2 - 2^m = \pm y^n$. (English summary) **97m:11045**
Filaseta, Michael A generalization of an irreducibility theorem of I. Schur. **97g:11025**
Gaál, István (*with* Pethő, Attila; Pohst, Michael) On the resolution of index form equations in biquadratic number fields. III. The bicyclic biquadratic case. (English summary) **97a:11052**
Győry, Kálmán *see* **Bugeaud, Yann, 97b:11045** *and* **97b:11046**
Le, Mao Hua Some applications of Baker's method. XIII. (Chinese. English and Chinese summaries) **97b:11050**
— On the Diophantine equation $D_1x^4 - D_2y^2 = 1$. **97b:11040**
— On Jeśmanowicz' conjecture concerning Pythagorean numbers. (English summary) **97h:11034**
Liu, Dehua *see* **Yu, Kunrui, 97k:11049**
Mignotte, Maurice (*with* Roy, Yves) Catalan's equation has no new solution with either exponent less than 10651. (English summary) **97g:11030**
— A note on the equation $ax^n - by^n = c$. **97c:11042**
— (*with* de Weger, Benjamin M. M.) On the Diophantine equations $x^2 + 74 = y^5$ and $x^2 + 86 = y^5$. (English summary) **97b:11044**
Pethő, Attila *see* **Gaál, István; et al., 97a:11052**
Pohst, Michael *see* **Gaál, István; et al., 97a:11052**
Rémond, Gaël (*with* Urfels, Florent) Approximation diophantienne de logarithmes elliptiques p-adiques. (English and French summaries) [Diophantine approximation of p-adic elliptic logarithms] **97f:11054**
Roy, Yves *see* **Mignotte, Maurice, 97g:11030**
Urfels, Florent *see* **Rémond, Gaël, 97f:11054**
de Weger, Benjamin M. M. *see* **Mignotte, Maurice, 97b:11044**
Yu, Kunrui (*with* Liu, Dehua) A complete resolution of a problem of Erdős and Graham. (English summary) **97k:11049**

11J89 Transcendence theory of elliptic and abelian functions

Cohen, Paula Beazley Humbert surfaces and transcendence properties of automorphic functions. **97m:11101**
Nesterenko, Yu. V. Modular functions and transcendence questions. (Russian. Russian summary) **97m:11102**

Items with secondary classifications in 11J89

Rémond, Gaël (*with* Urfels, Florent) Approximation diophantienne de logarithmes elliptiques p-adiques. (English and French summaries) [Diophantine approximation of p-adic elliptic logarithms] **97f:11054**
Urfels, Florent *see* **Rémond, Gaël, 97f:11054**

11J91 Transcendence theory of other special functions

Chirskiĭ, V. G. Arithmetic properties of the values of hypergeometric series. (Russian) **97e:11083**
Denis, Laurent Un critère de transcendance en caractéristique finie. [A transcendence criterion in finite characteristic] **97e:11084**
Kulagin, V. A. On the algebraic independence of the values of hypergeometric functions of a certain class. (Russian. Russian summary) **97d:11113**
Nishioka, Kumiko A new proof of Masser's vanishing theorem. (English summary) **97a:11119**
Shidlovskiĭ, A. B. Criteria for the linear and algebraic dependence of the values of E-functions at algebraic points. (Russian) **97f:11061**

Items with secondary classifications in 11J91

Allouche, Jean-Paul Transcendence of the Carlitz-Goss gamma function at rational arguments. (English summary) **97i:11061**
Berthé, Valérie Combinaisons linéaires de $\zeta(s)/\Pi^s$ sur $\mathbf{F}_q(x)$, pour $1 \le s \le q-2$. (English and French summaries) [Linear combinations of $\zeta(s)/\Pi^s$ over $\mathbf{F}_q(x)$, for $1 \le s \le q-2$] **97c:11075**
Brownawell, W. Dale Algebraic independence of Drinfel'd exponential and quasi-periodic functions. (English summary) **97c:11063**
(Estrada Sarlabous, J.) *see* **Holzapfel, Rolf-Peter, 97g:11059**
Galochkin, A. I. On the approximation by algebraic numbers of solutions of some equations that contain E-functions. (Russian) **97f:11058**
Holzapfel, Rolf-Peter ★ The ball and some Hilbert problems. (English summary) **97g:11059**
Nesterenko, Yu. V. Modular functions and transcendence problems. (English and French summaries) **97g:11080**
— (*with* Shidlovskiĭ, A. B.) On the linear independence of values of E-functions. (Russian. Russian summary) **97k:11106**
Shidlovskiĭ, A. B. On the algebraic independence of the values of E-functions connected by algebraic equations over the field of rational functions. (Russian) **97e:11082**
— On the linear independence of values of E-functions associated with an algebraic equation over the field of rational functions. (Russian) **97a:11118**
— *see also* **Nesterenko, Yu. V., 97k:11106**
Tanaka, Taka-Aki Algebraic independence of the values of power series generated by linear recurrences. **97b:11097**
Thakur, Dinesh S. Transcendence of gamma values for $\mathbf{F}_q[T]$. (English summary) **97i:11063**
Xu, Guangshan Simultaneous approximation to values of exponential function at algebraic points. (English summary) **97a:11113**
Zudilin, V. V. On the irrationality measure of values of G-functions. (Russian. Russian summary) **97f:11059**

11J99 None of the above, but in this section

Amoroso, Francesco Polynomials with prescribed vanishing at roots of unity. (Italian summary) **97a:11120**

Items with secondary classifications in 11J99

Beauzamy, Bernard Products of many-variable polynomials: pairs that are maximal in Bombieri's norm. (English summary) **97a:11038**
Chen, Jian Hua[1] (*with* Voutier, Paul) Complete solution of the Diophantine equation $X^2 + 1 = dY^4$ and a related family of quartic Thue equations. (English summary) **97m:11039**
Everest, Graham (*with* Fhlathúin, Bríd Ní) The elliptic Mahler measure. **97e:11064**
Ferretti, Roberto Giorgio An effective version of Faltings' product theorem. (English summary) **97h:11066**
Fhlathúin, Bríd Ní *see* **Everest, Graham, 97e:11064**
Langtry, T. N. An application of Diophantine approximation to the construction of rank-1 lattice quadrature rules. (English summary) **97a:65028**
Razafimanantsoa, Ephrem Comparaison de normes pour les polynômes homogènes en plusieurs variables. (French summary) [Comparison of norms for multivariate homogeneous polynomials] **97k:11034**
Ru, Min Geometric and arithmetic aspects of $\mathbf{P}^n$ minus hyperplanes. **97e:32031**
Schinzel, Andrzej On the Mahler measure of polynomials in many variables. **97k:11036**
Schwartz, Richard Evan Quasi-isometric rigidity and Diophantine approximation. **97m:53093**
Voutier, Paul *see* **Chen, Jian Hua[1], 97m:11039**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

Items with secondary classifications in 11Kxx

Tenenbaum, Gérald ★ Introduction à la théorie analytique et probabiliste des nombres. (French) [Introduction to analytic and probabilistic number theory] **97e:11005a**
— ★ Introduction to analytic and probabilistic number theory. (English summary) **97e:11005b**
— ★ Exercices corrigés de théorie analytique et probabiliste des nombres. (French) [Answers to exercises in analytic and probabilistic number theory] **97h:11001**
(Thomas, C. B.) *see* **Tenenbaum, Gérald, 97e:11005b**
(Wu, Jie[1]) *see* **Tenenbaum, Gérald, 97h:11001**

11K06 General theory of distribution modulo 1 [see also 11J71]

Hlawka, Edmund Radon transform and uniform distribution. **97f:11062**

Items with secondary classifications in 11K06

Antipov, M. V. *see* **Mikhailov, G. A., 97g:11085**
Choe, Geon H. Ergodicity and irrational rotations. (English summary) **97m:28017**
Darvasi, Gyula On almost uniform distribution of the Fibonacci sequence $u(3, 1)$. **97e:11023**
Ferenczi, Sébastien (*with* Mauduit, Christian; Nogueira, Arnaldo) Substitution dynamical systems: algebraic characterization of eigenvalues. (English summary) **97b:58085**
Mauduit, Christian *see* **Ferenczi, Sébastien; et al., 97b:58085**
Mikhailov, G. A. (*with* Antipov, M. V.) Estimates for the nonuniformity of the distributions of congruent sums of random variables. (Russian) **97g:11085**
Nair, Radhakrishnan On Riemann sums and Lebesgue integrals. (English summary) **97a:26009**
Nogueira, Arnaldo *see* **Ferenczi, Sébastien; et al., 97b:58085**
Wasilkowski, Grzegorz W. (*with* Woźniakowski, Henryk) The exponent of discrepancy is at most $1.4778\cdots$. (English summary) **97i:11083**
Woźniakowski, Henryk *see* **Wasilkowski, Grzegorz W., 97i:11083**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Barat, Guy (*with* Grabner, Peter J.) Distribution properties of G-additive functions. (English summary) **97k:11112**

Bassily, N. L. (*with* Kátai, Imre) Distribution of consecutive digits in the q-ary expansions of some subsequences of integers. (English summary) **97c:11079**
Bertrand-Mathis, Anne Nombres normaux dans diverses bases. (English and French summaries) [Normal numbers in various bases] **97m:11103**
Brown, Gavin Normality to different bases. **97g:11081**
Frougny, Christiane (*with* Solomyak, Boris) On representation of integers in linear numeration systems. (English summary) **97f:11063**
Grabner, Peter J. *see* **Barat, Guy, 97k:11112**
Kátai, Imre *see* **Bassily, N. L., 97c:11079**
Moran, William (*with* Pollington, Andrew D.) A problem in multi-index normality. (English summary) **97i:11082**
Pollington, Andrew D. *see* **Moran, William, 97i:11082**
Solomyak, Boris *see* **Frougny, Christiane, 97f:11063**
Volčič, Aljoša The first digit problem and scale-invariance. (English summary) **97d:11114**

Items with secondary classifications in 11K16

Le Borgne, Stéphane Un codage sofique des automorphismes hyperboliques du tore. (French summary) [Sofic coding of hyperbolic automorphisms of the torus] **97e:58068**
Levin, M. B. On the discrepancy of Markov-normal sequences. (English and French summaries) **97k:11113**
Parry, William Squaring and cubing the circle—Rudolph's theorem. **97h:28009**
Terr, David C. On the sums of digits of Fibonacci numbers. **97b:11019**

11K31 Special sequences

Grabner, Peter J. (*with* Tichy, Robert F.; Winkler, Reinhard) On the stability of the quotients of successive terms of linear recurring sequences. (English summary) **97b:11099**
Niederreiter, Harald (*with* Xing, Chaoping) Quasirandom points and global function fields. (English summary) **97j:11037**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97b:11099**
Winkler, Reinhard *see* **Grabner, Peter J.; et al., 97b:11099**
Xing, Chaoping *see* **Niederreiter, Harald, 97j:11037**

Items with secondary classifications in 11K31

Lesigne, Emmanuel (*with* Mauduit, Christian) Propriétés ergodiques des suites q-multiplicatives. [Ergodic properties of q-multiplicative sequences] **97h:28005**
Mauduit, Christian *see* **Lesigne, Emmanuel, 97h:28005**

11K36 Well-distributed sequences and other variations

Hensley, Douglas Note on a paper by G. J. Rieger: "On the equation $ad - bc = 1$ and on uniform distribution" [Math. Nachr. **162** (1993), 139–143; MR 94m:11092]. (English summary) **97b:11100**
Matveev, E. M. On a method for constructing well-distributed sequences. (Russian. Russian summary) **97b:11101**
Pasteka, M. (*with* Tichy, Robert F.) Distribution problems in Dedekind domains and submeasures. (English summary) **97f:11064**
(Rieger, G. J.) *see* **Hensley, Douglas, 97b:11100**
Tichy, Robert F. *see* **Pasteka, M., 97f:11064**

Items with secondary classifications in 11K36

Carlip, Walter (*with* Jacobson, Eliot) Unbounded stability of two-term recurrence sequences modulo 2^k. **97b:11021**
— (*with* Jacobson, Eliot) A criterion for stability of two-term recurrence sequences modulo 2^k. (English summary) **97h:11012**
Jacobson, Eliot *see* **Carlip, Walter, 97b:11021** *and* **97h:11012**
Mauduit, Christian (*with* Sárközy, Andràs) On the arithmetic structure of sets characterized by sum of digits properties. **97g:11107**
Mercourakis, Sophocles Some remarks on countably determined measures and uniform distribution of sequences. (English summary) **97j:28029**
Niederreiter, Harald (*with* Xing, Chaoping) Explicit global function fields over the binary field with many rational places. **97d:11177**
Sárközy, Andràs *see* **Mauduit, Christian, 97g:11107**
Xing, Chaoping *see* **Niederreiter, Harald, 97d:11177**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Chaix, Henri *see* **Faure, Henri, 97h:11079**
Chen, W. W. L. On irregularities of distribution. III. (English summary) **97e:11085**
Faure, Henri Discrépance et diaphonie en dimension un. (French summary) [Discrepancy and diaphony in dimension one] **97d:11115**
— (*with* Chaix, Henri) Minoration de discrépance en dimension deux. [Lower bound for discrepancy in two dimensions] **97h:11079**
Grozdanov, V. S. On the diaphony of two-dimensional finite sequences. **97d:11116**
Károlyi, Gyula Irregularities of point distributions relative to homothetic convex bodies. I. (English summary) **97d:11117**
Larcher, Gerhard (*with* Wolf, Reinhard Karl) Nets constructed over finite fields and the numerical integration of multivariate Walsh series. (English summary) **97g:11082**
Levin, M. B. On the discrepancy of Markov-normal sequences. (English and French summaries) **97k:11113**
Moshchevitin, N. G. Distribution of values of linear functions and the asymptotic behavior of trajectories of some dynamical systems. (Russian. Russian summary) **97b:11102**
Niederreiter, Harald (*with* Xing, Chaoping) Low-discrepancy sequences and global function fields with many rational places. (English summary) **97h:11080**
Rote, Günter (*with* Tichy, Robert F.) Spherical dispersion with an application to polygonal approximation of curves. (German summary) **97m:11104**
Thomas, Alain Discrépance en dimension un. (English and French summaries) [Discrepancy in dimension one] **97g:11083**
Tichy, Robert F. *see* **Rote, Günter, 97m:11104**
Wasilkowski, Grzegorz W. (*with* Woźniakowski, Henryk) The exponent of discrepancy is at most $1.4778\cdots$. (English summary) **97i:11083**
Wolf, Reinhard Karl *see* **Larcher, Gerhard, 97g:11082**
Woźniakowski, Henryk *see* **Wasilkowski, Grzegorz W., 97i:11083**
Xing, Chaoping *see* **Niederreiter, Harald, 97h:11080**

Items with secondary classifications in 11K38

Hensley, Douglas Note on a paper by G. J. Rieger: "On the equation $ad - bc = 1$ and on uniform distribution" [Math. Nachr. **162** (1993), 139–143; MR 94m:11092]. (English summary) **97b:11100**
Larcher, Gerhard (*with* Niederreiter, Harald; Schmid, Wolfgang Ch.) Digital nets and sequences constructed over finite rings and their application to quasi-Monte Carlo integration. (English summary) **97d:11119**
Mahalanabis, Arijit *see* **Mullen, Gary L.; et al., 97m:11105**
Matveev, E. M. On a method for constructing well-distributed sequences. (Russian. Russian summary) **97b:11101**
Mullen, Gary L. (*with* Mahalanabis, Arijit; Niederreiter, Harald) Tables of (t, m, s)-net and (t, s)-sequence parameters. (English summary) **97m:11105**
Niederreiter, Harald *see* **Larcher, Gerhard; et al., 97d:11119** *and* **Mullen, Gary L.; et al., 97m:11105**
(Rieger, G. J.) *see* **Hensley, Douglas, 97b:11100**
Schmid, Wolfgang Ch. *see* **Larcher, Gerhard; et al., 97d:11119**
Tuffin, Bruno On the use of low discrepancy sequences in Monte Carlo methods. (English summary) **97m:65018**

11K41 Continuous, p-adic and abstract analogues

Items with secondary classifications in 11K41

Abercrombie, A. G. The Hausdorff dimension of some exceptional sets of p-adic integer matrices. (English summary) **97d:11121**
Knopfmacher, Arnold (*with* Knopfmacher, John) Metric properties of some special p-adic series expansions. **97d:11123**
Knopfmacher, John *see* **Knopfmacher, Arnold, 97d:11123**
Petit, Bernard θ-transformations, θ-shifts and limit theorems for some Riesz-Raikov sums. (English summary) **97h:28010**

11K45 Pseudo-random numbers; Monte Carlo methods

Antipov, M. V. *see* **Mikhailov, G. A., 97g:11085**
Chou, Wun-Seng The period lengths of inversive congruential recursions. **97d:11118**
Eichenauer-Herrmann, Jürgen (*with* Larcher, Gerhard) Average behaviour of compound nonlinear congruential pseudorandom numbers. (English summary) **97b:11103**
— (*with* Larcher, Gerhard) Average equidistribution properties of compound nonlinear congruential pseudorandom numbers. (English summary) **97g:11084**
Koç, Cemal Recurring-with-carry sequences. (English summary) **97e:11086**
Larcher, Gerhard (*with* Niederreiter, Harald; Schmid, Wolfgang Ch.) Digital nets and sequences constructed over finite rings and their application to quasi-Monte Carlo integration. (English summary) **97d:11119**
— *see also* **Eichenauer-Herrmann, Jürgen, 97b:11103** *and* **97g:11084**
Mahalanabis, Arijit *see* **Mullen, Gary L.; et al., 97m:11105**
Mikhailov, G. A. (*with* Antipov, M. V.) Estimates for the nonuniformity of the distributions of congruent sums of random variables. (Russian) **97g:11085**
Mullen, Gary L. (*with* Mahalanabis, Arijit; Niederreiter, Harald) Tables of (t, m, s)-net and (t, s)-sequence parameters. (English summary) **97m:11105**
Niederreiter, Harald Improved bounds in the multiple-recursive matrix method for pseudorandom number and vector generation. (English summary) **97d:11120**
— *see also* **Larcher, Gerhard; et al., 97d:11119** *and* **Mullen, Gary L.; et al., 97m:11105**
Schmid, Wolfgang Ch. *see* **Larcher, Gerhard; et al., 97d:11119**

Items with secondary classifications in 11K45

Antipov, M. V. Congruence operator of the pseudo-random numbers generator and a modification of Euclidean decomposition. (English summary) **97e:65012**
Grabner, Peter J. (*with* Tichy, Robert F.; Winkler, Reinhard) On the stability of the quotients of successive terms of linear recurring sequences. (English summary) **97b:11099**
James, Frederick Edward Chaos and randomness. (English summary) **97d:58135**
Larcher, Gerhard (*with* Schmid, Wolfgang Ch.; Wolf, Reinhard Karl) Quasi-Monte Carlo methods for the numerical integration of multivariate Walsh series. (English summary) **97j:65044**
— (*with* Lauss, A.; Niederreiter, Harald; Schmid, Wolfgang Ch.) Optimal polynomials for (t, m, s)-nets and numerical integration of multivariate Walsh series. (English summary) **97m:65046**
Lauss, A. *see* **Larcher, Gerhard; et al., 97m:65046**
Luby, Michael ★ Pseudorandomness and cryptographic applications. (English summary) **97b:94024**
Matveev, E. M. On a method for constructing well-distributed sequences. (Russian. Russian summary) **97b:11101**
Niederreiter, Harald (*with* Xing, Chaoping) Quasirandom points and global function fields. (English summary) **97j:11037**
— *see also* **Larcher, Gerhard; et al., 97m:65046**
Schmid, Wolfgang Ch. *see* **Larcher, Gerhard; et al., 97j:65044** *and* **97m:65046**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97b:11099**
Winkler, Reinhard *see* **Grabner, Peter J.; et al., 97b:11099**
Wolf, Reinhard Karl *see* **Larcher, Gerhard; et al., 97j:65044**
Xing, Chaoping *see* **Niederreiter, Harald, 97j:11037**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Broise, Anne Fractions continues multidimensionnelles et lois stables. (English and French summaries) [Multidimensional continued fractions and stable distributions] **97h:11081**
Faivre, C. On the central limit theorem for random variables related to the continued fraction expansion. **97j:11038**
Ganatsiou, Chrys A random system with complete connections associated with a generalized Gauss-Kuzmin operator. (English summary) **97h:11082**
Keane, Michael S. A continued fraction titbit. (English summary) **97i:11084**
Nakada, Hitoshi Continued fractions, geodesic flows and Ford circles. **97g:11086**

Items with secondary classifications in 11K50

Bailey, David H. (*with* Borwein, Jonathan M.; Crandall, Richard E.) On the Khintchine constant. (English summary) **97c:11119**
Borwein, Jonathan M. *see* **Bailey, David H.; et al., 97c:11119**
Crandall, Richard E. *see* **Bailey, David H.; et al., 97c:11119**
Faivre, C. The Lévy constant of an irrational number. **97j:11036**
Sidorov, Nikita Arsenovich Laws of large numbers and the central limit theorem for sequences of coefficients of rotational expansions. (Russian. English and Russian summaries) **97f:60057**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Abercrombie, A. G. The Hausdorff dimension of some exceptional sets of p-adic integer matrices. (English summary) **97d:11121**
Barrionuevo, Jose (*with* Burton, Robert M., Jr.; Dajani, Karma; Kraaikamp, Cornelis) Ergodic properties of generalized Lüroth series. **97b:11104**
Burton, Robert M., Jr. *see* **Barrionuevo, Jose; et al., 97b:11104**
Chevallier, Nicolas Distances dans la suite des multiples d'un point du tore à deux dimensions. [Distances in the sequence of multiples of a point of the torus in two dimensions] **97b:11105**
Dajani, Karma *see* **Barrionuevo, Jose; et al., 97b:11104**
El Naschie, M. S. On numbers, probability and dimensions. (English summary) **97d:11122**
Hensley, Douglas A polynomial time algorithm for the Hausdorff dimension of continued fraction Cantor sets. (English summary) **97i:11085a**
— Erratum: "A polynomial time algorithm for the Hausdorff dimension of continued fraction Cantor sets". **97i:11085b**
Knopfmacher, Arnold (*with* Knopfmacher, John) Metric properties of some special p-adic series expansions. **97d:11123**
Knopfmacher, John *see* **Knopfmacher, Arnold, 97d:11123**
Kraaikamp, Cornelis *see* **Barrionuevo, Jose; et al., 97b:11104**
Sakovich, N. V. The Hausdorff dimension and the distribution of values of integral polynomials over **C**. (Russian. English and Russian summaries) **97c:11080**
Schweiger, Fritz ★ Ergodic theory of fibred systems and metric number theory. **97h:11083**
— Fully subtractive algorithms. (English summary) **97f:11065**
Velani, Sanju L. Geometrically finite groups, Khintchine-type theorems and Hausdorff dimension. **97h:11084**

Items with secondary classifications in 11K55

Bosherniţzan, Michael (*with* Wierdl, Máté) Ergodic theorems along sequences and Hardy fields. (English summary) **97f:28041**
Brown, Gavin Normality to different bases. **97g:11081**
Chevallier, Nicolas Meilleures approximations d'un élément du tore $\mathbf{T}^2$ et géométrie de la suite des multiples de cet élément. [Best approximations of an element of the torus $\mathbf{T}^2$ and geometry of its sequence of multiples] **97m:11094**
Heinrich, Lothar Mixing properties and central limit theorem for a class of non-identical piecewise monotonic C^2-transformations. (English summary) **97g:60031**
Hinokuma, Takanori (*with* Shiga, Hiroo) Hausdorff dimension of sets arising in Diophantine approximation. (English summary) **97k:11114**
Naito, Koichiro Fractal dimensions of almost periodic attractors. (English summary) **97e:58156**
Schmidt, Klaus ★ Dynamical systems of algebraic origin. (English summary) **97c:28041**
Shiga, Hiroo *see* **Hinokuma, Takanori, 97k:11114**
Sidorov, Nikita Arsenovich Laws of large numbers and the central limit theorem for sequences of coefficients of rotational expansions. (Russian. English and Russian summaries) **97f:60057**
Wierdl, Máté *see* **Bosherniţzan, Michael, 97f:28041**

11K60 Diophantine approximation [see also 11Jxx]

Grabner, Peter J. (*with* Kiss, Péter; Tichy, Robert F.) Diophantine approximation in terms of linear recurrent sequences. (English summary) **97h:11085**
Hinokuma, Takanori (*with* Shiga, Hiroo) Hausdorff dimension of sets arising in Diophantine approximation. (English summary) **97k:11114**
Kiss, Péter *see* **Grabner, Peter J.; et al., 97h:11085**
Shiga, Hiroo *see* **Hinokuma, Takanori, 97k:11114**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97h:11085**

Items with secondary classifications in 11K60

Chevallier, Nicolas Meilleures approximations d'un élément du tore $\mathbf{T}^2$ et géométrie de la suite des multiples de cet élément. [Best approximations of an element of the torus $\mathbf{T}^2$ and geometry of its sequence of multiples] **97m:11094**
Forrest, A. H. The limit points of Weyl sums and other continuous cocycles. (English summary) **97j:11040**
Iwanik, Anzelm Approximation by periodic transformations and Diophantine approximation of the spectrum. (English summary) **97g:28024**
Kargaev, P. P. (*with* Zhiglyavskiĭ, A. A.) Approximation of real numbers by rationals: some metric theorems. (English summary) **97k:11109**
Moshchevitin, N. G. Distribution of values of linear functions and the asymptotic behavior of trajectories of some dynamical systems. (Russian. Russian summary) **97b:11102**
Zhiglyavskiĭ, A. A. *see* **Kargaev, P. P., 97k:11109**

11K65 Arithmetic functions [see also 11Nxx]

Biró, A. (*with* Szamuely, T.) A Turán-Kubilius inequality with multiplicative weights. **97a:11121**
De Koninck, Jean-Marie (*with* Kátai, Imre) On the distribution of subsets of primes in the prime factorization of integers. **97a:11122**
Dumont, Jean Marie (*with* Thomas, Alain) Gaussian asymptotic properties of the sum-of-digits function. (English summary) **97m:11106**
Elliott, P. D. T. A. ★ Duality in analytic number theory. **97k:11115**
Golomb, Solomon W. Probability distributions in prime number theory. (English summary) **97b:11106**
Kátai, Imre *see* **De Koninck, Jean-Marie, 97a:11122**
Laurinčikas, Antanas On the distribution of complex-valued multiplicative functions. (English and French summaries) **97h:11086**
Lucht, Lutz G. (*with* Reifenrath, Klaus) Weighted Wiener-Lévy theorems. (English summary) **97j:11039**
— Recurrent and almost-periodic sequences. (English summary) **97k:11116**
Manstavičius, Eugenijus Natural divisors and the Brownian motion. (English and French summaries) **97k:11117**
Minuţ, Petru Arithmetical functions on the Gaussian ring of integers. I. Probabilistic model for the Euler φ function. (Romanian. English summary) **97b:11107**
— Arithmetical functions on the Gaussian ring of integers. II. Kubilius models for real-valued additive functions. (Romanian. English summary) **97b:11108**
Reifenrath, Klaus *see* **Lucht, Lutz G., 97j:11039**
Šiaulys, Jonas V. Convergence to the Poisson law. I. Integer-valued additive functions. (Russian. Lithuanian summary) **97h:11087**
Szamuely, T. *see* **Biró, A., 97a:11121**
Thomas, Alain *see* **Dumont, Jean Marie, 97m:11106**
Timofeev, N. M. Arithmetic functions on the set of shifted prime numbers. (Russian) **97e:11087**
Zhang, Wen-Bin[1] Probabilistic number theory in additive arithmetic semigroups. I. **97h:11088**
Zhang, Wen Peng The problem of the probability distribution of the solutions to a family of congruences. (Chinese. English and Chinese summaries) **97e:11081**

Items with secondary classifications in 11K65

Babu, Gutti Jogesh Absolute continuity of the distributions of additive arithmetic functions. (English summary) **97d:11144**
Delange, Hubert On products of multiplicative functions of absolute value at most 1 which are composed with linear functions. **97h:11101**
Nowak, Werner Georg On the value distribution of a class of arithmetic functions. (English summary) **97h:11104**
Spilker, Jürgen Ramanujan-Koeffizienten und Hankel-Matrizen. [Ramanujan coefficients and Hankel matrices] **97h:11106**
Timofeev, N. M. Hardy-Ramanujan and Halasz inequalities for shifted prime numbers. (Russian. Russian summary) **97a:11157**
Yamasaki, Aiichi *see* **Yamasaki, Yasuo, 97a:11141**
Yamasaki, Yasuo (*with* Yamasaki, Aiichi) On the gap distribution of prime numbers. (English summary) **97a:11141**
Zhai, Wen Guang On the distribution of $\{x/n\}$. II. **97c:11094**

11K70 Harmonic analysis and almost periodicity

Kolountzakis, Mihail N. (*with* Lagarias, Jeffrey C.) Structure of tilings of the line by a function. **97d:11124**
Lagarias, Jeffrey C. *see* **Kolountzakis, Mihail N., 97d:11124**

Items with secondary classifications in 11K70

Bourgain, Jean Estimates related to sumfree subsets of sets of integers. (English summary) **97m:11026**
Elliott, P. D. T. A. ★ Duality in analytic number theory. **97k:11115**
Lucht, Lutz G. Recurrent and almost-periodic sequences. (English summary) **97k:11116**

11K99 None of the above, but in this section

Levit-skaya, A. A. Invariance theorems for a class of nonlinear systems of equations over an arbitrary finite field. (Russian. English and Ukrainian summaries) **97i:11086**
Solomyak, Boris On the random series $\sum \pm\lambda^n$ (an Erdős problem). **97d:11125**
Ward, Thomas Additive relations in fields: an entropy approach. (English summary) **97d:11126**

Items with secondary classifications in 11K99

Blecksmith, Richard (*with* Laud, Purushottam W.) Some exact number theory computations via probability mechanisms. **97d:11012**
Bokaev, N. A. On U-sets for multiplicative systems. (Russian) **97i:42021**
Borodin, A. M. Limit Jordan normal form of large triangular matrices over a finite field. (Russian) **97c:11036**
Hu, Tian-You (*with* Lau, Ka-Sing) Hausdorff dimension of the level sets of Rademacher series. (English summary)
Key, Eric S. Divergence rates for the number of rare numbers. (English summary) **97d:60059**
Kohayakawa, Yoshiharu (*with* Łuczak, Tomasz; Rödl, Vojtěch) Arithmetic progressions of length three in subsets of a random set. **97b:11011**

Kolountzakis, Mihail N. On the additive complements of the primes and sets of similar growth. **97g:11117**
Landreau, Bernard Étude probabiliste des sommes de s puissances s-ièmes. (English and French summaries) [Probabilistic study of sums of s sth powers] **97a:11163**
Lau, Ka-Sing *see* **Hu, Tian-You**
Laud, Purushottam W. *see* **Blecksmith, Richard, 97d:11012**
Laurinčikas, Antanas (*with* Misevičius, G.) On limit distribution of the Riemann zeta-function. **97h:11091**
Łuczak, Tomasz *see* **Kohayakawa, Yoshiharu; et al., 97b:11011**
Lyapkov, L. A. (*with* Sevast'yanov, B. A.) Limit distribution of the probabilities of the permanent of a random matrix in the field GF(p). (Russian. Russian summary) **97g:60017**
Misevičius, G. *see* **Laurinčikas, Antanas, 97h:11091**
Queffelec, Hervé H. Bohr's vision of ordinary Dirichlet series; old and new results. **97a:11137**
Rödl, Vojtěch *see* **Kohayakawa, Yoshiharu; et al., 97b:11011**
Sevast'yanov, B. A. *see* **Lyapkov, L. A., 97g:60017**
Spencer, Joel H. Four squares with few squares. **97j:11048**

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

11L03 Trigonometric and exponential sums, general

Items with secondary classifications in 11L03

Chubarikov, V. N. On the problems of I. M. Vinogradov in the theory of prime numbers. (Russian) **97e:11091**
Vietoris, Leopold Über das Vorzeichen gewisser trigonometrischer Summen. III. [On the sign of certain trigonometric sums. III] **97e:42003**
Voronin, S. M. On the construction of quadrature formulas. (Russian. Russian summary) **97d:11158**
Yu, Gang[1] The differences between consecutive primes. **97a:11142**

11L05 Gauss and Kloosterman sums; generalizations

Akiyama, Shigeki On the pure Jacobi sums. **97c:11082**
Aoki, Noboru Abelian fields generated by a Jacobi sum. **97e:11088**
Bluher, Antonia The Weil representation and Gauss sums. (English summary) **97d:11127**
Fisher, Benji Kloosterman sums as algebraic integers. **97a:11123**
Hayashi, Yoshiki Gaußsche Summe von den quadratischen Zahlkörpern für allgemeine Diskriminanten $D = D_0 f^2$ (mit einer kleinen Tabelle). (English summary) [Gaussian sum of quadratic number fields for general discriminants $D = D_0 f^2$ (with a small table)] **97m:11107**
Hurt, Norman E. Kloosterman sums and their applications: a review. (English summary) **97c:11083**
Jakubec, Stanislav Note on the Jacobi sum $J(\chi, \chi)$. **97a:11124**
Katz, Nicholas M. (*with* Zheng, Zhiyong) On the uniform distribution of Gauss sums and Jacobi sums. (English summary) **97e:11089**
Kim, Dae San Gauss sums for classical groups over a finite field. **97e:11090**
— (*with* Lee, In-Sok) Gauss sums for $O^+(2n, q)$. **97i:11087**
Lee, In-Sok *see* **Kim, Dae San, 97i:11087**
Michel, Philippe Autour de la conjecture de Sato-Tate pour les sommes de Kloosterman. I. [On the Sato-Tate conjecture for Kloosterman sums. I] **97k:11118**
Miki, Hiroo On Ihara's power series. (English summary) **97d:11128**
— On Shioda's problem about Jacobi sums. (Japanese) (*see* **97f:11002**)
— Jacobi sums and the Hilbert symbol for a power of two. **97a:11125**
Nakajima, Shoichi On Gauss sum characters of finite groups and generalized Bernoulli numbers. **97g:11087**
Patterson, S. J. The asymptotic distribution of Kloosterman sums. **97k:11119**
Takagi, Tsuyoshi Product formula of the cubic Gauss sum modulo the product of the primes. (English summary) **97m:11108**
Wan, Da Qing Minimal polynomials and distinctness of Kloosterman sums. (English summary) **97c:11084**
Ye, Yangbo The lifting of Kloosterman sums. (English summary) **97a:11126**
Zheng, Zhiyong *see* **Katz, Nicholas M., 97e:11089**

Items with secondary classifications in 11L05

Berg, M. C. On generalized Gauss-Hecke sums and theta constants. (English summary) **97g:11046**
Friedberg, Solomon (*with* Jacquet, Hervé) The fundamental lemma for the Shalika subgroup of GL(4). (English summary) **97d:11080**
Goss, David ★ Basic structures of function field arithmetic. **97i:11062**
Huard, James G. (*with* Spearman, Blair K.; Williams, Kenneth S.) An arithmetic approach to the Davenport-Hasse relation over GF(p). (English summary) **97d:11186**
Hurt, Norman E. Exponential sums and coding theory: a review. (English summary) **97m:11151**
Jacquet, Hervé *see* **Friedberg, Solomon, 97d:11080**
Li, Bang He (*with* Li, Tian-Jun) Generalized Gaussian sums: Chern-Simons-Witten-Jones invariants of lens-spaces. (English summary) **97e:57018**
Li, Tian-Jun *see* **Li, Bang He, 97e:57018**
Medrano, A. (*with* Myers, Perla; Stark, H. M.; Terras, Audrey) Finite analogues of Euclidean space. (English summary) **97k:11172**
Myers, Perla *see* **Medrano, A.; et al., 97k:11172**
Pitt, Nigel J. E. On shifted convolutions of $\zeta^3(s)$ with automorphic L-functions. **97a:11069**
Spearman, Blair K. *see* **Huard, James G.; et al., 97d:11186**
Stark, H. M. *see* **Medrano, A.; et al., 97k:11172**
Sugi, M. Lattice points in domains on the N. I. Lobachevskiĭ plane. (Russian) **97e:11125**
Terras, Audrey *see* **Medrano, A.; et al., 97k:11172**
Vinogradov, A. I. Convolutions. Comparison of spectral resolutions at different vertices. (Russian. Russian summary) **97a:11075**
Williams, Kenneth S. *see* **Huard, James G.; et al., 97d:11186**
Zhang, Wen Peng A class of number-theoretic functions and its mean value distribution properties. (Chinese. Chinese summary) **97d:11146**

11L07 Estimates on exponential sums

Arkhipov, G. I. (*with* Khosini, A.; Chubarikov, V. N.) Estimates for sums with Gaussian numbers. (Russian) **97d:11129**
Chubarikov, V. N. On the problems of I. M. Vinogradov in the theory of prime numbers. (Russian) **97e:11091**
— *see also* **Arkhipov, G. I.; et al., 97d:11129**
Dabbousi, Hédi Effective estimates of exponential sums over primes. **97i:11088**
Duke, William (*with* Friedlander, John B.; Iwaniec, Henryk) Bilinear forms with Kloosterman fractions. **97m:11109**
Dzhabbarov, I. Sh. On estimates for trigonometric integrals. (Russian) **97e:11092**
Friedlander, John B. *see* **Duke, William; et al., 97m:11109**
Heath-Brown, D. R. An estimate for Heilbronn's exponential sum. **97k:11120**
Huxley, Martin N. ★ Area, lattice points, and exponential sums. **97g:11088**
Iwaniec, Henryk *see* **Duke, William; et al., 97m:11109**
Khosini, A. *see* **Arkhipov, G. I.; et al., 97d:11129**
Krätzel, Ekkehard Double exponential sums. (English summary) **97h:11089**
Liu, Jian Ya *see* **Zhan, Tao**
Shparlinskiĭ, I. E. On exponential sums with sparse polynomials and rational functions. (English summary) **97g:11089**
Zhan, Tao (*with* Liu, Jian Ya) A Bombieri-type mean value theorem for prime variable trigonometric sums. (Chinese)
Zhang, Wen Peng Primitive roots in short intervals and their distribution properties. (Chinese)
Zheng, Zhiyong The distribution of zeros of an irreducible curve over a finite field. (English summary) **97f:11066**

Items with secondary classifications in 11L07

Baker, Roger C. (*with* Harman, Glyn) Numbers with a large prime factor. **97a:11138**
— The Brun-Titchmarsh theorem. **97a:11150**
Bourgain, Jean Estimates related to sumfree subsets of sets of integers. (English summary) **97m:11026**
Cohn, Henry (*with* Elkies, Noam D.; Propp, James G.) Local statistics for random domino tilings of the Aztec diamond. (English summary) **97k:52026**
Elkies, Noam D. *see* **Cohn, Henry; et al., 97k:52026**
Granville, Andrew (*with* Ramaré, Olivier) Explicit bounds on exponential sums and the scarcity of squarefree binomial coefficients. **97m:11023**
Harman, Glyn *see* **Baker, Roger C., 97a:11138**
Lachaud, Gilles Number of points of plane sections and linear codes defined on algebraic varieties. (English summary) **97g:11065**
Liu, Hong Quan Almost primes in short intervals. (English summary) **97c:11092**
Liu, Jian Ya (*with* Zhan, Tao) On sums of five almost equal prime squares. **97g:11113**
Nowak, Werner Georg On sums of two kth powers: a mean-square bound for the error term. (English summary) **97g:11116**
Propp, James G. *see* **Cohn, Henry; et al., 97k:52026**
Ramaré, Olivier *see* **Granville, Andrew, 97m:11023**
Wooley, Trevor D. Some remarks on Vinogradov's mean value theorem and Tarry's problem. (English summary) **97g:11032**
Zhan, Tao *see* **Liu, Jian Ya, 97g:11113**

11L10 Jacobsthal and Brewer sums; other complete character sums

Bachman, Gennady On an optimality property of Ramanujan sums. (English summary) **97f:11067**
Liu, Chun Lei[1] On character sums of rational functions over local fields. **97h:11090**

Items with secondary classifications in 11L10

Ismoilov, D. Estimates for complete trigonometric sums. (Russian) **97e:11094**

11L15 Weyl sums

Forrest, A. H. The limit points of Weyl sums and other continuous cocycles. (English summary) **97j:11040**
Gritsenko, S. A. On estimates for trigonometric sums with respect to the third derivative. (Russian. Russian summary) **97m:11110**

Items with secondary classifications in 11L15

Baker, Roger C. The square-free divisor problem. II. **97f:11080**
Liu, Hong Quan Almost primes in short intervals. (English summary) **97c:11092**
Wooley, Trevor D. A note on simultaneous congruences. (English summary) **97h:11037**

11L20 Sums over primes

Liu, Jian Ya Remark on a theorem of Wolke. **97e:11093**
— *see also* **Zhan, Tao, 97i:11090**
Padma, R. (*with* Venkataraman, S.) Elliptic curves with complex multiplication and a character sum. (English summary) **97i:11089**
Venkataraman, S. *see* **Padma, R., 97i:11089**
Zhan, Tao (*with* Liu, Jian Ya) A Bombieri-type mean-value theorem concerning exponential sums over primes. **97i:11090**

Items with secondary classifications in 11L20

Daboussi, Hédi Effective estimates of exponential sums over primes. **97i:11088**
Heath-Brown, D. R. The largest prime factor of the integers in an interval. (English summary) **97j:11044**
Kaczorowski, J. (*with* Perelli, Alberto) A new form of the Riemann-von Mangoldt explicit formula. (Italian summary) **97g:11098**
Liu, Hong Quan Almost primes in short intervals. (English summary) **97c:11092**
Perelli, Alberto *see* **Kaczorowski, J., 97g:11098**

11L40 Estimates on character sums

Ayyad, Anwar (*with* Cochrane, Todd; Zheng, Zhiyong) The congruence $x_1x_2 \equiv x_3x_4 \pmod p$, the equation $x_1x_2 = x_3x_4$, and mean values of character sums. (English summary) **97i:11091**
Cochrane, Todd *see* **Ayyad, Anwar; et al., 97i:11091**
Ismoilov, D. Estimates for complete trigonometric sums. (Russian) **97e:11094**
Özbudak, Ferruh On lower bounds for incomplete character sums over finite fields. (English summary) **97a:11127**
Rakhmonov, Z. Kh. On the distribution of the values of Dirichlet characters and their applications. (Russian) **97f:11068**
Zhang, Wen Peng Sums of squares of primitive roots modulo p. (Chinese. English and Chinese summaries) **97c:11085**
Zheng, Zhiyong *see* **Ayyad, Anwar; et al., 97i:11091**

Items with secondary classifications in 11L40

Bochkarev, S. V. Estimates for some character sums. (Russian) **97d:42033**
Katz, Nicholas M. A note on exponential sums. **97i:11120**
— (*with* Zheng, Zhiyong) On the uniform distribution of Gauss sums and Jacobi sums. (English summary) **97e:11089**
Padma, R. (*with* Venkataraman, S.) Elliptic curves with complex multiplication and a character sum. (English summary) **97i:11089**
Timofeev, N. M. Arithmetic functions on the set of shifted prime numbers. (Russian) **97e:11087**
Venkataraman, S. *see* **Padma, R., 97i:11089**
Zheng, Zhiyong *see* **Katz, Nicholas M., 97e:11089**

11L99 None of the above, but in this section

Piltant, Olivier Frobenius pour les sommes de Selberg. [Frobenius for Selberg sums] **97a:11128**
Shail, R. Some logarithmic lattice sums. (English summary) **97a:11129**

11Mxx Zeta and L-functions: analytic theory

Items with secondary classifications in 11Mxx

Tenenbaum, Gérald ★ Introduction à la théorie analytique et probabiliste des nombres. (French) [Introduction to analytic and probabilistic number theory] **97e:11005a**
— ★ Introduction to analytic and probabilistic number theory. (English summary) **97e:11005b**
(Thomas, C. B.) *see* **Tenenbaum, Gérald, 97e:11005b**

11M06 $\zeta(s)$ and $L(s, \chi)$

Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli) Some local convexity theorems for the zeta-function-like analytic functions. II. **97a:11130**
Bombieri, Enrico (*with* Friedlander, John B.) Dirichlet polynomial approximations to zeta functions. (English summary) **97a:11131**
Bradley, David Ramanujan's formula for the logarithmic derivative of the gamma function. (English summary) **97a:11132**
Choi, Junesang (*with* Srivastava, Hari M.) Sums associated with the zeta function. (English summary) **97i:11092**
Choudhury, Bejoy K. The Riemann zeta-function and its derivatives. (English summary) **97e:11095**
Conrey, J. B. A note on the fourth power moment of the Riemann zeta-function. (English summary) **97e:11096**
Cvijović, Djurdje (*with* Klinowski, Jacek) New rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **97g:11090**
Ewell, John A. On the zeta function values $\zeta(2k+1)$, $k = 1, 2, \cdots$. (English summary) **97i:11093**
Friedlander, John B. *see* **Bombieri, Enrico, 97a:11131**
Ivić, Aleksandar On a class of convolution functions connected with $\zeta(s)$. (English summary) **97a:11133**
— On the fourth moment of the Riemann zeta-function. (English summary) **97b:11109**
— Some problems on mean values of the Riemann zeta-function. (English and French summaries) **97d:11130**
— (*with* Matsumoto, Kohji) On the error term in the mean square formula for the Riemann zeta-function in the critical strip. (English summary) **97e:11097**
Jutila, Matti The fourth moment of Riemann's zeta-function and the additive divisor problem. **97f:11069**
Kachenas, A. On the twelfth power moment of the Riemann zeta function near the critical line. (Russian. Lithuanian summary) **97f:11070**
— Asymptotics of the second power moment of the Riemann zeta function in the critical strip. (Russian. Lithuanian summary) **97i:11094**
— Asymptotics of the fourth power moment of the Riemann zeta function in the critical strip. (Russian. Lithuanian summary) **97m:11111**
Kiuchi, Isao The mean value formula for the approximate functional equation of $\zeta^2(s)$ in the critical strip. II. **97i:11095**
Klinowski, Jacek *see* **Cvijović, Djurdje, 97g:11090**
Laurinčikas, Antanas Limit theorems for Dirichlet L-functions. (Russian) **97e:11098**
— On moments of the Riemann zeta function near the critical line. (Russian. Lithuanian summary) **97e:11099**
— A uniform estimate for the remainder term in the mean square of the Riemann zeta function. (Russian. Lithuanian summary) **97k:11121**
— (*with* Misevičius, G.) On limit distribution of the Riemann zeta-function. **97h:11091**
Lavrik, A. F. Equation of the zeta function and an interval of the Euler product. (Russian) **97e:11100**
Matsumoto, Kohji *see* **Ivić, Aleksandar, 97e:11097**
Misevičius, G. *see* **Laurinčikas, Antanas, 97h:11091**
Motohashi, Yōichi A relation between the Riemann zeta-function and the hyperbolic Laplacian. **97e:11101**
Ojha, P. K. (*with* Singh, I. N.) A discussion on two definitions of "the Riemann zeta function". (English summary)
Platetski-Shapiro, I. I. (*with* Raghunathan, Ravi) On Hamburger's theorem. **97a:11134**
Popov, Oleg V. On Hadamard's method concerning zeros of the Riemann zeta-function. (English summary) **97f:11071**
Raghunathan, Ravi *see* **Platetski-Shapiro, I. I., 97a:11134**
Ramachandra, Kanakanahalli Little flowers to I. M. Vinogradov. **97d:11131**
— ★ On the mean-value and omega-theorems for the Riemann zeta-function. **97a:11135**
— Fractional moments of the Riemann zeta-function. **97k:11122**
— *see also* **Balasubramanian, Ramachandran, 97a:11130**
Singh, I. N. *see* **Ojha, P. K.**
Smith, H. V. The numerical approximation of the Riemann zeta function. (English summary) **97a:11136**
Srivastava, Hari M. *see* **Choi, Junesang, 97i:11092**
Wang, Guan Min Rao-Davis identities related to the Riemann zeta-function. (Chinese. English and Chinese summaries) **97g:11091**
Wang, Wei[3] On the approximate functional equation of Dirichlet L-functions. **97m:11112**

Items with secondary classifications in 11M06

Amdeberhan, Tewodros Faster and faster convergent series for $\zeta(3)$. (English summary) **97b:11154**
Arkhipov, G. I. (*with* Buriev, Kakhor) Refinement of estimates for the Riemann zeta-function in a neighbourhood of the line $\operatorname{Re} s = 1$. (English summary) **97i:11096**
Boston, Nigel A probabilistic generalization of the Riemann zeta function. **97e:11106**
Buriev, Kakhor *see* **Arkhipov, G. I., 97i:11096**
Chen, Jing Run (*with* Wang, Tian Ze) The Goldbach problem for odd numbers. (Chinese. English and Chinese summaries) **97k:11138**
Dąbrowski, Andrzej Bogdan A note on values of the Riemann zeta function at positive odd integers. (English summary) **97g:11142**
Dilcher, Karl Sums of products of Bernoulli numbers. (English summary) **97h:11014**
Hauss, Michael ★ Verallgemeinerte Stirling, Bernoulli und Euler Zahlen, deren Anwendungen und schnell konvergente Reihen für Zeta Funktionen. (German) [Generalized Stirling, Bernoulli and Euler numbers and their applications and fast convergent series for zeta functions] **97c:11029**
He, Christina Q. (*with* Lapidus, Michel L.) Generalized Minkowski content and the vibrations of fractal drums and strings. (English summary) **97i:58176**
— (*with* Lapidus, Michel L.) Generalized Minkowski content, spectrum of fractal drums, fractal strings and the Riemann zeta-function. (English summary) **97j:35114**
Karatsuba, Anatolii Alekseevich ★ Complex analysis in number theory. **97d:11001**
Kim, Han-Soo (*with* Kim, Taekyun) On q-log-gamma-functions. **97b:11025**
Kim, Taekyun *see* **Kim, Han-Soo, 97b:11025**
Konyagin, Sergei V. (*with* Popov, A. Yu.) On the rate of divergence of some integrals. (Russian) **97f:11075**
Kühleitner, Manfred On the asymmetric divisor problem with congruence conditions. (English summary) **97h:11103**
Kurokawa, Nobushige Zeta functions of categories. **97m:11114**
Lapidus, Michel L. (*with* Maier, Helmut) The Riemann hypothesis and inverse spectral problems for fractal strings. (English summary) **97b:11111**
— *see also* **He, Christina Q., 97i:58176** *and* **97j:35114**
Maier, Helmut *see* **Lapidus, Michel L., 97b:11111**
Moser, Jan On some infinite classes of iterative zeta functions. (Russian. English summary) **97k:11128**
Pitt, Nigel J. E. On shifted convolutions of $\zeta^3(s)$ with automorphic L-functions. **97a:11069**
Popov, A. Yu. *see* **Konyagin, Sergei V., 97f:11075**
Prévost, M. A new proof of the irrationality of $\zeta(2)$ and $\zeta(3)$ using Padé approximants. (English summary) **97f:11056**
Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai) A remark on Vinogradov's mean-value theorem. (English summary) **97a:11140**
Rhin, Georges (*with* Viola, Carlo) On a permutation group related to $\zeta(2)$. **97m:11099**
Sankaranarayanan, Ayyadurai *see* **Ramachandra, Kanakanahalli, 97a:11140**
Viola, Carlo *see* **Rhin, Georges, 97m:11099**
Wang, Tian Ze *see* **Chen, Jing Run, 97k:11138**

11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$

Katayama, Shin-ichi Remark on upper bounds for $L(1, \chi)$. **97e:11102**
Leu, Ming-Guang (*with* Li, Wen-Ch'ing Winnie) On the series for $L(1, \chi)$. **97c:11086**
— On $L(1, \chi)$ and class number formula for the real quadratic fields. **97e:11103**
Li, Wen-Ch'ing Winnie *see* **Leu, Ming-Guang, 97c:11086**
Louboutin, Stéphane Majorations explicites de $\lvert L(1, \chi)\rvert$. II. (English and French summaries) [Explicit upper bounds on $\lvert L(1, \chi)\rvert$. II] **97k:11123**
Vaughan, R. C. Small values of Dirichlet L-functions at 1. **97g:11092**

Items with secondary classifications in 11M20

Le, Mao Hua Upper bounds for the class numbers of cyclotomic fields and their maximal real subfields. (Chinese. English and Chinese summaries) **97m:11134**
Yıldırım, Cem Yalçın Zeros of derivatives of Dirichlet L-functions. (English and Turkish summaries) **97j:11041**

Zhang, Wen Peng On the mean values of Dedekind sums. (English and French summaries) **97m:11058**

11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

Arkhipov, G. I. (*with* Buriev, Kakhor) Refinement of estimates for the Riemann zeta-function in a neighbourhood of the line $\mathrm{Re}\, s = 1$. (English summary) **97i:11096**
Bogomol'nyi, E. B. (*with* Keating, Jonathan Peter) Random matrix theory and the Riemann zeros. I. Three- and four-point correlations. (English summary) **97d:11132a**
— (*with* Keating, Jonathan Peter) Random matrix theory and the Riemann zeros. II. n-point correlations. (English summary) **97d:11132b**
Buriev, Kakhor *see* **Arkhipov, G. I., 97i:11096**
Connes, Alain Formule de trace en géométrie non-commutative et hypothèse de Riemann. (English and French summaries) [Trace formula in noncommutative geometry and the Riemann hypothesis] **97k:11124**
Fujii, Akio An additive theory of the zeros of the Riemann zeta function. **97k:11125**
Gritsenko, S. A. On a density theorem. (Russian) **97e:11104**
Guo, Charng Rang On the zeros of $\zeta(s)$ and $\zeta'(s)$. (English summary) **97d:11133**
Kanemitsu, S. (*with* Yoshimoto, Masami) Farey series and the Riemann hypothesis. **97b:11110**
Keating, Jonathan Peter *see* **Bogomol'nyi, E. B., 97d:11132a** *and* **97d:11132b**
Lapidus, Michel L. (*with* Maier, Helmut) The Riemann hypothesis and inverse spectral problems for fractal strings. (English summary) **97b:11111**
Lavrik, A. A. The Titchmarsh problem in the discrete theory of the Riemann zeta function. (Russian) **97g:11093**
Lee, Jungseob Convergence and the Riemann hypothesis. (English summary) **97m:11113**
Maier, Helmut *see* **Lapidus, Michel L., 97b:11111**
Moser, Jan On the multiplicities of the zeros of the Riemann zeta function. (Russian) **97d:11134**
Peretti, Aldo Is the Riemann hypothesis proved since 100 years ago? **97k:11126**
Ramachandra, Kanakanahalli On the zeros of $\zeta^{(l)}(s) - a$ (on the zeros of a class of a generalized Dirichlet series. XVII). (English summary) **97e:11087**
Soundararajan, K. On the distribution of gaps between zeros of the Riemann zeta-function. **97i:11097**
Yıldırım, Cem Yalçın Zeros of derivatives of Dirichlet L-functions. (English and Turkish summaries) **97j:11041**
Yoshimoto, Masami *see* **Kanemitsu, S., 97b:11110**

Items with secondary classifications in 11M26

Bazzanella, Danilo Primes in almost all short intervals. (Italian summary) **97e:11089**
Friedlander, John B. (*with* Goldston, D. A.) Sums of three or more primes. (English summary) **97h:11115**
Goldston, D. A. *see* **Friedlander, John B., 97h:11115**
Huxley, Martin N. (*with* Nowak, Werner Georg) Primitive lattice points in convex planar domains. **97k:11136**
Julia, B. L. Théories statistique et thermodynamique des nombres. (English) [Statistical and thermodynamical number theory] **97d:11196**
Kaczorowski, J. (*with* Perelli, Alberto) A new form of the Riemann-von Mangoldt explicit formula. (Italian summary) **97g:11098**
Lavrik, A. F. Equation of the zeta function and an interval of the Euler product. (Russian) **97e:11100**
Nowak, Werner Georg *see* **Huxley, Martin N., 97k:11136**
Perelli, Alberto *see* **Kaczorowski, J., 97g:11098**
Ramachandra, Kanakanahalli ★ On the mean-value and omega-theorems for the Riemann zeta-function. **97a:11135**
Voronin, S. M. On an explicit formula for the von Mangoldt Λ-function. (Russian) **97f:11076**
Yu, Gang[1] The differences between consecutive primes. **97a:11142**

11M35 Hurwitz and Lerch zeta functions

Katsurada, Masanori (*with* Matsumoto, Kohji) Explicit formulas and asymptotic expansions for certain mean square of Hurwitz zeta-functions. I. **97k:11127**
— Power series with the Riemann zeta-function in the coefficients. **97h:11092**
Matsumoto, Kohji *see* **Katsurada, Masanori, 97k:11127**
Xin, Xiao Long (*with* Zhang, Jian Kang) Two asymptotic formulas for the Hurwitz zeta-function and the distribution of primitive roots. (Chinese. English and Chinese summaries) **97e:11105**
Zhang, Jian Kang *see* **Xin, Xiao Long, 97e:11105**
Zhang, Wen Peng The mean square value formula for the Lerch zeta-function. (Chinese. Chinese summary) **97b:11112**

Items with secondary classifications in 11M35

Branson, Thomas Nonlinear phenomena in the spectral theory of geometric linear differential operators. (English summary) **97j:58156**
Choi, Junesang Explicit formulas for Bernoulli polynomials of order n. (English summary) **97e:11029**
Kühleitner, Manfred On the asymmetric divisor problem with congruence conditions. (English summary) **97h:11103**
Nishizawa, Michitomo *see* **Ueno, Kimio, 97m:11116**
Olbrich, Martin *see* **Bunke, Ulrich, 97c:11088**
Ueno, Kimio (*with* Nishizawa, Michitomo) q-zeta functions and hypergeometric functions. (Japanese) **97m:11116**

11M36 Selbert zeta functions and regularized determinants

Bunke, Ulrich (*with* Olbrich, Martin) ★ Selberg zeta and theta functions. (English summary) **97c:11088**
Jorgenson, Jay (*with* Lang, Serge) Extension of analytic number theory and the theory of regularized harmonic series from Dirichlet series to Bessel series. **97f:11072**
Lang, Serge *see* **Jorgenson, Jay, 97f:11072**
Kurokawa, Nobushige Zeta functions of categories. **97m:11114**
Schröter, Martin ★ Über Kurokawa-Tensorprodukte von L-Reihen. (German) [On Kurokawa tensor products of L-series] **97g:11094**

Items with secondary classifications in 11M36

Böser, Jürgen The multiplier-series of a Schottky group. **97k:11076**
Choi, Junesang *see* **Quine, J. R., 97k:58176**
Jorgenson, Jay (*with* Todorov, Andrei Nikolov) A conjectured analogue of Dedekind's eta function for $K3$ surfaces. (English summary) **97a:11071**
Ledet, Arne Subgroups of Hol Q_8 as Galois groups. (English summary) **97d:12007**
Quine, J. R. (*with* Choi, Junesang) Zeta regularized products and functional determinants on spheres. **97k:58176**
Todorov, Andrei Nikolov *see* **Jorgenson, Jay, 97a:11071**

11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72.}

Boston, Nigel A probabilistic generalization of the Riemann zeta function. **97e:11106**
Chekhov, L. L-functions in scattering on generalized Cayley trees. (English summary) (*see* **97j:58002**)
Datskovsky, Boris A. On Dirichlet series whose coefficients are class numbers of binary quadratic forms. **97m:11115**
Elizalde, Emilio Extension of the Chowla-Selberg formula and applications. (English summary) **97e:11107**
Friedlander, John B. Bounds for L-functions. **97e:11108**
Funakura, Takeo On characterization of Dirichlet L-functions. **97h:11093**
Gritsenko, S. A. On the zeros of linear combinations of functions of a special form that are associated with Dirichlet series of Selberg's class. (Russian. Russian summary) **97g:11095**
Huard, James G. (*with* Williams, Kenneth S.; Zhang, Nan-Yue) On Tornheim's double series. **97f:11073**
Ibukiyama, Tomoyoshi On dimensions of automorphic forms and zeta functions of prehomogeneous vector space. **97e:11109**
Laurinčikas, Antanas Limit theorems for the Matsumoto zeta-function. (English and French summaries) **97d:11135**
Moser, Jan On some infinite classes of iterative zeta functions. (Russian. English summary) **97k:11128**
Nishizawa, Michitomo *see* **Ueno, Kimio, 97m:11116**
Queffelec, Hervé H. Bohr's vision of ordinary Dirichlet series; old and new results. **97a:11137**
Rudnick, Zeév (*with* Sarnak, Peter) Zeros of principal L-functions and random matrix theory. **97f:11074**
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Satō, Fumihiro An introduction to zeta functions of prehomogeneous vector spaces. (Japanese) **97d:11136**
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Zhang, Nan-Yue *see* **Huard, James G.; et al., 97f:11073**

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Adamchik, V. S. On Stirling numbers and Euler sums. (English summary) **97m:11025**
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Bombieri, Enrico (*with* Friedlander, John B.) Dirichlet polynomial approximations to zeta functions. (English summary) **97a:11131**
Boschi-Filho, H. (*with* Farina de Souza, Carlos) Generalized thermal zeta-functions. (English summary) **97b:58145**
Bump, Daniel (*with* Friedberg, Solomon; Hoffstein, Jeffrey) On some applications of automorphic forms to number theory. (English summary) **97a:11072**
— (*with* Ginzburg, David; Hoffstein, Jeffrey) The symmetric cube. **97j:11023**
Buschman, R. G. Number-theoretic functions from partial products. (English summary) **97a:11014**
Duke, William (*with* Friedlander, John B.; Iwaniec, Henryk) Class group L-functions. **97h:11138**
Essouabri, Driss Prolongement méromorphe des séries de Dirichlet à support dans un sous-ensemble semi-algébrique de $\mathbf{R}^n$. (English and French summaries) [Meromorphic continuation of Dirichlet series with support in a semialgebraic subset of $\mathbf{R}^n$] **97k:30004**
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Gangl, Herbert ★ Funktionalgleichungen von Polylogarithmen. (German) [Functional equations of polylogarithms] **97h:19009**
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Hoffstein, Jeffrey *see* **Bump, Daniel; et al., 97a:11072** *and* **97j:11023**

Hurt, Norman E. Kloosterman sums and their applications: a review. (English summary) **97c:11083**
Huxley, Martin N. (*with* Nowak, Werner Georg) Primitive lattice points in convex planar domains. **97k:11136**
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Keiper, J. B. On the zeros of the Ramanujan τ-Dirichlet series in the critical strip. (English summary) **97a:11073**
Khan, Mizan R. Computation of partial zeta values at $s = 0$ over a totally real cubic field. (English summary) **97g:11126**
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Luo, Wen Zhi (*with* Sarnak, Peter) Quantum ergodicity of eigenfunctions on $PSL_2(\mathbf{Z})\backslash\mathbf{H}^2$. **97f:11037**
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Ohno, Yasuo The history and prospects of zeta functions of binary cubic forms. (Japanese) **97e:11047**
Ramachandra, Kanakanahalli On the zeros of $\zeta^{(l)}(s) - a$ (on the zeros of a class of a generalized Dirichlet series. XVII). (English summary) **97c:11087**
— (*with* Sankaranarayanan, Ayyadurai) Hardy's theorem for zeta-functions of quadratic forms. (English summary) **97j:11018**
Sankaranarayanan, Ayyadurai *see* **Ramachandra, Kanakanahalli, 97j:11018**
Sapuzhak, T. M. *see* **Vladimirov, V. S., 97g:11129**
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Satō, Fumihiro Eisenstein series on weakly spherical homogeneous spaces and zeta functions of prehomogeneous vector spaces. **97g:11050**
du Sautoy, Marcus P. F. (*with* Lubotzky, Alexander) Functional equations and uniformity for local zeta functions of nilpotent groups. (English summary) **97g:11137**
Shimura, Goro Convergence of zeta functions on symplectic and metaplectic groups. **97c:11055**
Solomon, David p-adic limits of Shintani generating functions for a real quadratic field. (English summary) **97m:11140**
Tenenbaum, Gérald Sur la non-dérivabilité de fonctions périodiques associées à certaines formules sommatoires. (French summary) [Nondifferentiability of periodic functions associated with certain summation formulas] **97k:11010**
Tschinkel, Yu. *see* **Batyrev, V. V., 97d:11103**
Vladimirov, V. S. (*with* Sapuzhak, T. M.) Adèlic formulas for string amplitudes in fields of algebraic numbers. (English summary) **97g:11129**
Wan, Da Qing Global zeta functions over number fields and function fields. (English summary) **97d:11175**
Yagi, Akiko On the mean value of Hecke L-functions. (English summary) **97g:11127**
Yoshida, Hiroyuki On calculations of zeros of various L-functions. **97a:11076**
Yukie, Akihiko On the convergence of the zeta function for certain prehomogeneous vector spaces. **97k:11166**

11M45 Tauberian theorems [see also 40E05]

Items with secondary classifications in 11M45

Johansson, B. I. A Tauberian vanishing theorem. (Russian summary) **97c:40006**
Konyagin, Sergei V. (*with* Popov, A. Yu.) On the rate of divergence of some integrals. (Russian) **97f:11075**
Lapidus, Michel L. (*with* Maier, Helmut) The Riemann hypothesis and inverse spectral problems for fractal strings. (English summary) **97b:11111**
Maier, Helmut *see* **Lapidus, Michel L., 97b:11111**
Popov, A. Yu. *see* **Konyagin, Sergei V., 97f:11075**

11M99 None of the above, but in this section

Borwein, Jonathan M. (*with* Girgensohn, Roland) Evaluation of triple Euler sums. (English summary) **97d:11137**
Girgensohn, Roland *see* **Borwein, Jonathan M., 97d:11137**

Items with secondary classifications in 11M99

Le Tu Quoc Thang (*with* Murakami, Jun) Kontsevich's integral for the Kauffman polynomial. **97d:57009**
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Wan, Da Qing On the Riemann hypothesis for the characteristic p zeta function. **97c:11064**

11Nxx Multiplicative number theory

(Kanemitsu, S.) *see* **Romanov, N. P., 97d:11138**
(Kiuchi, Isao) *see* **Romanov, N. P., 97d:11138**
Romanov, N. P. Hilbert spaces and number theory. (English summary) **97d:11138**

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Tenenbaum, Gérald ★ Introduction à la théorie analytique et probabiliste des nombres. (French) [Introduction to analytic and probabilistic number theory] **97e:11005a**
— ★ Introduction to analytic and probabilistic number theory. (English summary) **97e:11005b**
— ★ Exercices corrigés de théorie analytique et probabiliste des nombres. (French) [Answers to exercises in analytic and probabilistic number theory] **97h:11001**
(Thomas, C. B.) *see* **Tenenbaum, Gérald, 97e:11005b**
(Wu, Jie[1]) *see* **Tenenbaum, Gérald, 97h:11001**

11N05 Distribution of primes

Baker, Roger C. (*with* Harman, Glyn) Numbers with a large prime factor. **97a:11138**
Balasubramanian, Ramachandran (*with* Soundararajan, K.) On a conjecture of R. L. Graham. **97a:11139**
Bazzanella, Danilo Primes in almost all short intervals. (Italian summary) **97c:11089**
Bil, Robert (*with* Blessenohl, Dieter) Elementare Abschätzungen für das kleinste gemeinsame Vielfache. (German summary) [Elementary estimates for the least common multiple] **97i:11098**
Blessenohl, Dieter *see* **Bil, Robert, 97i:11098**
Erdős, Paul[1] (*with* Nathanson, Melvyn B.) On the sum of the reciprocals of the differences between consecutive primes. **97h:11094**
Giordano, George Further results on a generalization of Bertrand's postulate. (English summary) **97g:11097**
Granville, Andrew Unexpected irregularities in the distribution of prime numbers. **97d:11139**
Guiasu, Silviu On Gauss' conjecture on the distribution of primes. (English summary) **97h:11095**
Harman, Glyn *see* **Baker, Roger C., 97a:11138**
Jia, Chao Hua Almost all short intervals containing prime numbers. (English summary) **97e:11110**
Kaczorowski, J. (*with* Perelli, Alberto) A new form of the Riemann-von Mangoldt explicit formula. (Italian summary) **97g:11098**
Kahane, Jean-Pierre Une formule de Fourier sur les nombres premiers. [A Fourier formula for prime numbers] **97b:11113**
Konyagin, Sergei V. (*with* Popov, A. Yu.) On the rate of divergence of some integrals. (Russian) **97f:11075**
Lang, Serge La conjecture de Bateman-Horn. [The Bateman-Horn conjecture] **97b:11114**
Massias, Jean-Pierre (*with* Robin, Guy) Bornes effectives pour certaines fonctions concernant les nombres premiers. (French summary) [Effective bounds for certain functions involving primes] **97g:11099**
Nathanson, Melvyn B. *see* **Erdős, Paul[1], 97h:11094**
Nuriddinov, F. R. Tauberian argumentation in an elementary proof of the asymptotic law of the distribution of prime numbers. (Russian. English and Uzbek summaries)
Perelli, Alberto *see* **Kaczorowski, J., 97g:11098**
Popov, A. Yu. *see* **Konyagin, Sergei V., 97f:11075**
Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai) A remark on Vinogradov's mean-value theorem. (English summary) **97a:11140**
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Yamasaki, Yasuo (*with* Yamasaki, Aiichi) On the gap distribution of prime numbers. (English summary) **97a:11141**
Yu, Gang[1] The differences between consecutive primes. **97a:11142**

Items with secondary classifications in 11N05

Bateman, Paul T. (*with* Diamond, Harold G.) A hundred years of prime numbers. **97m:01036**
Chen, Jing Run (*with* Wang, Tian Ze) The Goldbach problem for odd numbers. (Chinese. English and Chinese summaries) **97k:11138**
Diamond, Harold G. *see* **Bateman, Paul T., 97m:01036**
Fletcher, Peter (*with* Lindgren, William; Pomerance, Carl) Symmetric and asymmetric primes. (English summary) **97c:11007**
Friedlander, John B. (*with* Goldston, D. A.) Variance of distribution of primes in residue classes. **97j:11042**
Goldston, D. A. *see* **Friedlander, John B., 97j:11042**
Golomb, Solomon W. Probability distributions in prime number theory. (English summary) **97b:11106**
Hsu, Chih-Nung The distribution of irreducible polynomials in $\mathbf{F}_q[t]$. (English summary) **97j:11063**
Jia, Chao Hua Three primes theorem in a short interval. VII. (English summary) **97i:11100**
Konyagin, Sergei V. A note on the least prime in an arithmetic progression. (English summary) **97j:11043**
Lindgren, William *see* **Fletcher, Peter; et al., 97c:11007**
Pomerance, Carl *see* **Fletcher, Peter; et al., 97c:11007**
Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai; Srinivas, Kotyada) Problems and results on $\alpha p - \beta q$. **97a:11160**
Sankaranarayanan, Ayyadurai *see* **Ramachandra, Kanakanahalli; et al., 97a:11160**
Srinivas, Kotyada *see* **Ramachandra, Kanakanahalli; et al., 97a:11160**
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11N13 Primes in progressions [see also 11B25]

Bach, Eric (*with* Sorenson, Jonathan P.) Explicit bounds for primes in residue classes. (English summary) **97a:11143**
Baker, Roger C. (*with* Harman, Glyn) The Brun-Titchmarsh theorem on average. **97h:11096**
Fischer, Dietmar (*with* Zhan, Tao) Some almost all results concerning the Pjateckii-Sapiro prime numbers. (English summary) **97f:11077**
Friedlander, John B. (*with* Goldston, D. A.) Variance of distribution of primes in residue classes. **97j:11042**
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Harman, Glyn *see* **Baker, Roger C., 97h:11096**
Konyagin, Sergei V. A note on the least prime in an arithmetic progression. (English summary) **97j:11043**
Lin, Jia Fu (*with* Zhan, Tao) Generalization of Bombieri's theorem and its applications. (English summary) **97c:11090**
Ramaré, Olivier (*with* Rumely, Robert) Primes in arithmetic progressions. (English summary) **97a:11144**
Rumely, Robert *see* **Ramaré, Olivier, 97a:11144**
Sorenson, Jonathan P. *see* **Bach, Eric, 97a:11143**

Vassilev-Missana, Mladen V. A new point of view on Dirichlet's theorem for the prime numbers distribution in an arithmetic progression.
Xuan, Ti Zuo Irregularities in the distribution of primes in an arithmetic progression. **97f:11078**
Zhan, Tao *see* **Lin, Jia Fa, 97c:11090** *and* **Fischer, Dietmar, 97f:11077**

Items with secondary classifications in 11N13

Chabert, Jean-Luc Une caractérisation des polynômes prenant des valeurs entières sur tous les nombres premiers. (English and French summaries) [A characterization of polynomials integer-valued on prime numbers] **97h:11024**
Granville, Andrew Unexpected irregularities in the distribution of prime numbers. **97d:11139**
Hinz, Jürgen G. A note on a Bombieri-type result in algebraic prime number theory. **97d:11176**
Kaczorowski, J. (*with* Perelli, Alberto) A new form of the Riemann-von Mangoldt explicit formula. (Italian summary) **97g:11098**
Liu, Jian Ya Remark on a theorem of Wolke. **97c:11093**
Perelli, Alberto *see* **Kaczorowski, J., 97g:11098**

11N25 Distribution of integers with specified multiplicative constraints

Avidon, Michael R. On the distribution of primitive abundant numbers. **97g:11100**
Dartyge, Cécile Entiers de la forme $n^2 + 1$ sans grand facteur premier. [Integers of the form $n^2 + 1$ without large prime factors] **97h:11097**
Erdős, Paul[1] (*with* Sárközy, Andràs; Sós, V. T.) On product representations of powers. I. (English summary) **97a:11145**
Fouvry, Etienne (*with* Tenenbaum, Gérald) Répartition statistique des entiers sans grand facteur premier dans les progressions arithmétiques. [Statistical distribution of integers without large prime factors in arithmetic progressions] **97h:11098**
Győry, Kálmán (*with* Sárközy, Andràs; Stewart, C. L.) On the number of prime factors of integers of the form $ab + 1$. **97c:11091**
Heath-Brown, D. R. The largest prime factor of the integers in an interval. (English summary) **97j:11044**
Hwang, Hsien-Kuei Asymptotic behaviour of some infinite products involving prime numbers. **97d:11140**
Liu, Hong Quan The distribution of square-full integers. **97a:11146**
— Almost primes in short intervals. (English summary) **97c:11092**
Nongkynrih, Amora On prime primitive roots. **97a:11147**
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Stewart, C. L. *see* **Győry, Kálmán; et al., 97c:11091**
Tenenbaum, Gérald Uniform distribution on divisors and Behrend sequences. **97e:11111**
— *see also* **Fouvry, Etienne, 97h:11098**
Trifonov, Ognian On gaps between k-free numbers. (English summary) **97a:11148**

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Barelkis, G. A remark on the distribution of the values of the divisor function. (Russian. Lithuanian summary) **97g:11101**
Granville, Andrew (*with* Ramaré, Olivier) Explicit bounds on exponential sums and the scarcity of squarefree binomial coefficients. **97m:11023**
Ivić, Aleksandar On the maximal order of certain arithmetic functions. (English summary) **97f:11081**
Konyagin, Sergei V. (*with* Popov, A. Yu.) On the rate of divergence of some integrals. (Russian) **97f:11075**
Manstavičius, Eugenijus Natural divisors and the Brownian motion. (English and French summaries) **97k:11117**
Pomerance, Carl Multiplicative independence for random integers. (English summary) **97k:11174**
Popov, A. Yu. *see* **Konyagin, Sergei V., 97f:11075**
Rakhmonov, Z. Kh. On the distribution of the values of Dirichlet characters and their applications. (Russian) **97f:11068**
Ramaré, Olivier *see* **Granville, Andrew, 97m:11023**
Smati, A. Sur l'itération du nombre de diviseurs des entiers sans grand facteur premier. (English summary) [Iteration of the number of divisors of integers free of large prime factors] **97e:11115**
Timofeev, N. M. Hardy-Ramanujan and Halasz inequalities for shifted prime numbers. (Russian. Russian summary) **97a:11157**

11N30 Turán theory [see also 30Bxx]

Andersson, Johan On some power sum problems of Turán and Erdős. **97b:11115**

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

Dartyge, Cécile Le plus grand facteur premier de $n^2 + 1$ où n est presque premier. [The largest prime factor of $n^2 + 1$, where n is almost prime] **97c:11093**

Items with secondary classifications in 11N32

Dartyge, Cécile Propriétés multiplicatives des valeurs de certains polynômes en deux variables. [Multiplicative properties of the values of certain polynomials in two variables] **97m:11118**
Granville, Andrew Unexpected irregularities in the distribution of prime numbers. **97d:11139**
Schinzel, Andrzej Arithmetical properties of polynomials. **97k:11035**

11N35 Sieves

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Brüdern, Jörg (*with* Fouvry, Etienne) Le crible à vecteurs. (English and French summaries) [The vector sieve] **97f:11079**
Diamond, Harold G. (*with* Halberstam, Heini; Richert, H.-E.) Combinatorial sieves of dimension exceeding one. II. (English summary) **97e:11112**
Elliott, P. D. T. A. Fractional power large sieves. **97i:11099**
Fouvry, Etienne *see* **Brüdern, Jörg, 97f:11079**
Friedlander, John B. (*with* Iwaniec, Henryk) Bombieri's sieve. **97m:11117**
Halberstam, Heini *see* **Diamond, Harold G.; et al., 97e:11112**
Iwaniec, Henryk *see* **Friedlander, John B., 97m:11117**
Nair, Mohan (*with* Perelli, Alberto) A sieve fundamental lemma for polynomials in two variables. **97j:11045**
Perelli, Alberto *see* **Nair, Mohan, 97j:11045**
Ramsay, Keith A sieve on analytic functions. (English summary) **97b:11116**
Richert, H.-E. *see* **Diamond, Harold G.; et al., 97e:11112**
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(Zannier, Umberto) *see* **Nair, Mohan, 97j:11045**

Items with secondary classifications in 11N35

Hsu, Chih-Nung A large sieve inequality for rational function fields. (English summary) **97e:11147**
Pomerance, Carl A tale of two sieves. **97f:11100**
Quesada, A. R. (*with* Van Pelt, B.) A note on the extensions of Eratosthenes' sieve. (English summary) **97e:11016**
Van Pelt, B. *see* **Quesada, A. R., 97e:11016**

11N36 Applications of sieve methods

Baker, Roger C. (*with* Harman, Glyn) Sparsely totient numbers. (English and French summaries) **97k:11129**
Dartyge, Cécile Propriétés multiplicatives des valeurs de certains polynômes en deux variables. [Multiplicative properties of the values of certain polynomials in two variables] **97m:11118**
Fouvry, Etienne (*with* Mauduit, Christian) Méthodes de crible et fonctions sommes des chiffres. [Sieve methods and sums-of-digits functions] **97j:11046**
Harman, Glyn *see* **Baker, Roger C., 97k:11129**
Hedy, Guediri Sur le répartition des nombres de Gauss dans une progression arithmétique. [On the distribution of Gaussian numbers in an arithmetical progression] **97a:11149**
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Jia, Chao Hua Three primes theorem in a short interval. VII. (English summary) **97i:11100**
Kan, Jiahai On the number-theoretic functions $\nu(n)$ and $\Omega(n)$. **97k:11130**
Mauduit, Christian *see* **Fouvry, Etienne, 97j:11046**
Pappalardi, Francesco On the order of finitely generated subgroups of $\mathbb{Q}^*$ (mod p) and divisors of $p - 1$. (English summary) **97d:11141**

Items with secondary classifications in 11N36

Baker, Roger C. (*with* Harman, Glyn) Numbers with a large prime factor. **97a:11138**
— (*with* Harman, Glyn) The Brun-Titchmarsh theorem on average. **97h:11096**
Brüdern, Jörg A sieve approach to the Waring-Goldbach problem. II. On the seven cubes theorem. **97j:11047**
— (*with* Fouvry, Etienne) Le crible à vecteurs. (English and French summaries) [The vector sieve] **97f:11079**
Cai, Ying Chun On a problem of Srinivasan. (English summary) **97g:11102**
Dartyge, Cécile Le plus grand facteur premier de $n^2 + 1$ où n est presque premier. [The largest prime factor of $n^2 + 1$, where n is almost prime] **97c:11093**
Dunten, Brian (*with* Jones, Julie; Sorenson, Jonathan P.) A space-efficient fast prime number sieve. (English summary) **97g:11141**
Erdős, Paul[1] (*with* Nathanson, Melvyn B.) On the sum of the reciprocals of the differences between consecutive primes. **97h:11094**
Fletcher, Peter (*with* Lindgren, William; Pomerance, Carl) Symmetric and asymmetric primes. (English summary) **97c:11007**
Fouvry, Etienne (*with* Mauduit, Christian) Sommes des chiffres et nombres presque premiers. [Sums of digits and almost primes] **97k:11029**
— *see also* **Brüdern, Jörg, 97f:11079**
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Heath-Brown, D. R. The largest prime factor of the integers in an interval. (English summary) **97j:11044**
Hinz, Jürgen G. A generalization of a problem of Chebyshev. **97c:11107**
Hofmann, Alfred (*with* Wolke, Dieter) On additive decompositions of the set of primes. **97h:11102**
Jia, Chao Hua Almost all short intervals containing prime numbers. (English summary) **97e:11110**
— On the exceptional set of Goldbach numbers in a short interval. **97e:11126**
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Lin, Jia Fa (*with* Zhan, Tao) Generalization of Bombieri's theorem and its applications. (English summary) **97c:11090**
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Liu, Hong Quan Almost primes in short intervals. (English summary) **97c:11092**
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McNay, Gavin Cohen's sieve with quadratic conditions. **97e:05055**
Nathanson, Melvyn B. *see* **Erdős, Paul[1], 97h:11094**
Pappalardi, Francesco On the r-rank Artin conjecture. (English summary) **97f:11082**
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Sorenson, Jonathan P. *see* **Dunten, Brian; et al., 97g:11141**
Timofeev, N. M. Hardy-Ramanujan and Halasz inequalities for shifted prime numbers. (Russian. Russian summary) **97a:11157**
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Wong, Simon Consequences from the study of concentration functions on shifted twin primes. **97g:11108**
Yu, Gang[1] The differences between consecutive primes. **97a:11142**
Zhan, Tao *see* **Lin, Jia Fa, 97c:11090**

11N37 Asymptotic results on arithmetic functions

Baker, Roger C. The Brun-Titchmarsh theorem. **97a:11150**
— The square-free divisor problem. II. **97f:11080**
Balakrishnan, U. (*with* Pétermann, Y.-F. S.) The Dirichlet series of $\zeta(s)\zeta^a(s+1)f(s+1)$: on an error term associated with its coefficients. **97k:11131**
Balasubramanian, Ramachandran (*with* Soundararajan, K.) Maximal sets of integers with distinct divisors. (English summary) **97a:11151**
Barelkis, G. A remark on the distribution of the values of the divisor function. (Russian. Lithuanian summary) **97g:11101**
Cai, Ying Chun On a problem of Srinivasan. (English summary) **97g:11102**
Cao, Hui Zhong Functions involving the number of prime factors of a natural number. (Chinese. English and Chinese summaries) **97k:11132**
De Koninck, Jean-Marie (*with* Grah, Jacques) Moyennes sur certains ensembles de diviseurs d'un entier. (English summary) [Average values in certain sets of divisors of an integer] **97b:11117**
Delange, Hubert On products of multiplicative functions of absolute value at most 1 which are composed with linear functions. **97h:11101**
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— (*with* Graham, S. W.; Ivić, Aleksandar; Pomerance, Carl) On the number of divisors of $n!$. (English summary) **97d:11142**
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— *see also* **Erdős, Paul[1]; et al., 97d:11142**
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Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai; Srinivas, Kotyada) Addendum to K. Ramachandra's paper: "Some problems of analytic number theory" [Acta Arith. **31** (1976), no. 4, 313–324; MR **54** #12682]. **97a:11155**
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— Sur l'itération du nombre de diviseurs des entiers sans grand facteur premier. (English summary) [Iteration of the number of divisors of integers free of large prime factors] **97e:11115**
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— *see also* **Smati, A., 97k:11133**
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Biró, A. (*with* Szamuely, T.) A Turán-Kubilius inequality with multiplicative weights. **97a:11121**
Buchmann, Johannes A. (*with* Abel-Hollinger, Christine S.) On smooth ideals in number fields. (English summary) **97h:11140**
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Knopfmacher, Arnold (*with* Knopfmacher, John; Warlimont, Richard) Ordered factorizations for integers and arithmetical semigroups. **97e:11118**
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Serre, Jean-Pierre Répartition asymptotique des valeurs propres de l'opérateur de Hecke T_p. [Asymptotic distribution of the eigenvalues of the Hecke operator T_p] **97h:11048**
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Szamuely, T. *see* **Biró, A., 97a:11121**
Timofeev, N. M. Arithmetic functions on the set of shifted prime numbers. (Russian) **97e:11087**
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11N45 Asymptotic results on counting functions for algebraic and topological structures

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Menzer, Hartmut On the average number of direct factors of a finite abelian group. **97m:11122**
Saias, Éric Étude du graphe divisoriel. I. [Study of the divisor graph. I] **97h:11108**
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Nowak, Werner Georg On the value distribution of a class of arithmetic functions. (English summary) **97h:11104**
— Sums of two kth powers: an omega estimate for the error term. (English summary) **97i:11101**
Pavlov, A. I. On the number of permutations with a finite set of cycle lengths. (Russian) **97e:05026**
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Zhang, Wen-Bin[1] Probabilistic number theory in additive arithmetic semigroups. I. **97h:11088**

11N56 Rate of growth of arithmetic functions

Cai, Tianxin An additive function on the ring of integers in the imaginary quadratic field $\mathbf{Q}(\sqrt{d})$ with class-number one. (English summary) **97g:11105**
Maier, Helmut The size of the coefficients of cyclotomic polynomials. **97g:11106**
Mei, Jiaqiang (*with* Xu, Senlin) Upper bound estimate of the number of multiplicative partitions and divisors. (English and Chinese summaries) **97k:11134**
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de A. Moreira, Carlos Gustavo T. On asymptotic estimates for arithmetic cost functions. (English summary) **97d:11192**
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El Marraki, Mohamed Fonction sommatoire de la fonction de Möbius. III. Majorations asymptotiques effectives fortes. (English and French summaries) [Summatory function of the Möbius function. III. Strong effective upper bounds] **97e:11113**
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11N60 Distribution functions associated with additive and positive multiplicative functions

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Mauduit, Christian (*with* Sárközy, Andràs) On the arithmetic structure of sets characterized by sum of digits properties. **97g:11107**
Ramachandra, Kanakanahalli (*with* Sankaranarayanan, Ayyadurai; Srinivas, Kotyada) Problems and results on $\alpha p - \beta q$. **97a:11160**
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Wong, Simon Consequences from the study of concentration functions on shifted twin primes. **97g:11108**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Chen, Guo Hui *see* **Wu, Sheng Li; et al., 97b:11120**
Chen, Yong-Gao A simple proof of a result on additive functions. (Chinese. English and Chinese summaries) **97h:11110**
— On a problem of P. Erdős. (English summary) **97g:11109**
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Tang, Yuan Sheng The Kátai property of pairs $\langle \alpha, \beta \rangle$ of real numbers and an application of it to multiplicative functions. (Chinese. English and Chinese summaries) **97d:11145**
— (*with* Shao, Pin Zong) Proof of a conjecture of Kátai. (Chinese. English and Chinese summaries) **97g:11110**
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Zhai, Wen Guang On the distribution of $\{x/n\}$. II. **97c:11094**
— Sums of the reciprocals of the values of a class of additive functions in a short interval. (Chinese)
Zhang, Wen Peng A class of number-theoretic functions and its mean value distribution properties. (Chinese. Chinese summary) **97d:11146**

Items with secondary classifications in 11N64

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Elliott, P. D. T. A. Fractional power large sieves. **97i:11099**
— ★ Duality in analytic number theory. **97k:11115**
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Laurinčikas, Antanas On the distribution of complex-valued multiplicative functions. (English and French summaries) **97h:11086**
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Šiaulys, Jonas V. Convergence to the Poisson law. I. Integer-valued additive functions. (Russian. Lithuanian summary) **97h:11087**
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11N69 Distribution of integers in special residue classes

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Pappalardi, Francesco On the order of finitely generated subgroups of $\mathbb{Q}^*$ (mod p) and divisors of $p - 1$. (English summary) **97d:11141**
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11N75 Applications of automorphic functions and forms to multiplicative problems [see also 11Fxx]

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Bump, Daniel (*with* Friedberg, Solomon; Hoffstein, Jeffrey) On some applications of automorphic forms to number theory. (English summary) **97a:11072**
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11N80 Generalized primes and integers

Knopfmacher, Arnold (*with* Knopfmacher, John; Warlimont, Richard) Ordered factorizations for integers and arithmetical semigroups. **97e:11118**
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Warlimont, Richard *see* **Knopfmacher, Arnold; et al., 97e:11118**
Zhang, Wen-Bin[1] The prime element theorem in additive arithmetic semigroups. I. **97m:11123**

Items with secondary classifications in 11N80

Fouvry, Etienne (*with* Mauduit, Christian) Sommes des chiffres et nombres presque premiers. [Sums of digits and almost primes] **97k:11029**
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11N99 None of the above, but in this section

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11Pxx Additive number theory; partitions

11P05 Waring's problem and variants

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Bateman, Paul T. The asymptotic formula for the number of representations of an integer as a sum of five squares. **97k:11135**
Brüdern, Jörg A sieve approach to the Waring-Goldbach problem. II. On the seven cubes theorem. **97j:11047**
Ford, Kevin B. The representation of numbers as sums of unlike powers. II. **97g:11111**
Golubeva, E. P. On nonhomogeneous Waring equations. (Russian. Russian summary) **97m:11124**
Hirschhorn, Michael D. (*with* Sellers, James A.) On representations of a number as a sum of three triangles. **97e:11119**
Jagy, William C. (*with* Kaplansky, Irving) Sums of squares, cubes, and higher powers. (English summary) **97e:11120**
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Kawada, Koichi On the sum of four cubes. **97m:11125**
— On the sum of four cubes and a product of k factors. **97h:11111**
Kouvalina, John A generalization of Waring's formula. (English summary) **97d:11147**
Landreau, Bernard Étude probabiliste des sommes de s puissances s-ièmes. (English and French summaries) [Probabilistic study of sums of s sth powers] **97a:11163**
Li, Hongze Waring's problem for sixteenth powers. (English summary) **97g:11112**
Liu, Jian Ya (*with* Zhan, Tao) On sums of five almost equal prime squares. **97g:11113**
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Spencer, Joel H. Four squares with few squares. **97j:11048**
Vassilev-Missana, Mladen V. Something new about $g(k)$ in Waring's problem. **97g:11114**
Wooley, Trevor D. Breaking classical convexity in Waring's problem: sums of cubes and quasi-diagonal behaviour. **97d:11148**
Yu, Gang[1] Waring's problem with polynomial summands. I. (Chinese. Chinese summary) **97h:11112**
Yu, Hong Bing On Waring's problem with polynomial summands. **97e:11121**
Zenkin, A. A. The generalized Waring problem: on a new property of natural numbers. (Russian. Russian summary) **97e:11122**
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Baker, Roger C. (*with* Brüdern, Jörg; Wooley, Trevor D.) Cubic Diophantine inequalities. **97e:11043**

Brüdern, Jörg (*with* Perelli, Alberto) The addition of primes and power. (English summary) **97h:11118**
— *see also* **Baker, Roger C.; et al., 97c:11043**
Calderón, Catalina (*with* de Velasco, M. J.) Waring's problem on squarefull integers. (English summary) **97b:11121**
Chou, Chung-Chiang (*with* Deng, Yue-Fan) Decomposing 40 billion integers by four tetrahedral numbers. (English summary) **97i:11123**
Deng, Yue-Fan *see* **Chou, Chung-Chiang, 97i:11123**
Hooley, Christopher On another sieve method and the numbers that are a sum of two hth powers. II. **97h:11100**
Nathanson, Melvyn B. ★ Additive number theory. (English summary) **97e:11004**
Perelli, Alberto *see* **Brüdern, Jörg, 97h:11118**
Polyanskiĭ, A. A. On the representation of numbers by the sum of three cubes and a binary quadratic form. (Russian) **97g:11041**
Ribenboim, Paulo Catalan's conjecture. (English summary) **97d:11053**
— The Catalan conjecture. (Catalan) **97h:11117**
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Wooley, Trevor D. *see* **Baker, Roger C.; et al., 97c:11043**

11P21 Lattice points in specified regions

Ablyalimov, S. B. An elementary proof of a theorem on lattice points. (Russian) **97e:11095**
Bleher, P. M. (*with* Bourgain, Jean) Distribution of the error term for the number of lattice points inside a shifted ball. **97e:11123**
Bourgain, Jean *see* **Bleher, P. M., 97e:11123**
Brion, Michel (*with* Vergne, Michèle) Une formule d'Euler-Maclaurin pour les fonctions de partition. (English and French summaries) [An Euler-Maclaurin formula for partition functions] **97a:11164**
— (*with* Vergne, Michèle) Une formule d'Euler-Maclaurin pour les polytopes convexes rationnels. (English and French summaries) [An Euler-Maclaurin formula for rational convex polytopes] **97a:11165**
Calderón, Catalina (*with* de Velasco, M. J.) Lattice points under a hyperbola. (Italian summary) **97g:11115**
Diaz, Ricardo (*with* Robins, Sinai) The Ehrhart polynomial of a lattice n-simplex. (English summary) **97h:11113**
Huxley, Martin N. The mean lattice point discrepancy. (English summary) **97d:11149**
— (*with* Nowak, Werner Georg) Primitive lattice points in convex planar domains. **97k:11136**
Kolountzakis, Mihail N. A problem of Steinhaus: can all placements of a planar set contain exactly one lattice point? (English summary) **97h:11114**
Kuba, G. The two parameter hyperbola problem. **97c:11096**
Lev, Vsevolod F. Distribution of lattice points on hyperbolic surfaces. **97a:11166**
Lichtin, Ben Geometric features of lattice point problems. **97d:11150**
Nowak, Werner Georg On sums of two kth powers: a mean-square bound for the error term. (English summary) **97g:11116**
— Sums of two kth powers: an omega estimate for the error term. (English summary) **97i:11101**
— *see also* **Huxley, Martin N., 97k:11136**
Ould Moustapha, Mohamed Vall Formule intégrale et développement asymptotique du nombre de points d'un réseau dans l'espace hyperbolique complexe. (English and French summaries) [Integral formula and asymptotic behavior for the number of lattice points in complex hyperbolic space] **97k:11137**
Peter, Manfred Gitterpunkte unter algebraischen Kurven. (English summary) [Lattice points below algebraic curves] **97e:11124**
Pila, J. Density of integer points on plane algebraic curves. **97m:11126**
Robins, Sinai *see* **Diaz, Ricardo, 97h:11113**
Sugi, M. Lattice points in domains on the N. I. Lobachevskiĭ plane. (Russian) **97e:11125**
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Xu, Yi-Jing (*with* Yau, Stephen S.-T.) A sharp estimate of the number of integral points in a 4-dimensional tetrahedra [tetrahedron]. **97d:11151**
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Baake, Michael *see* **Pleasants, Peter A. B.; et al., 97f:11050**
Bean, Michael A. The practical computation of areas associated with binary quartic forms. (English summary) **97i:11029**
Córdoba, Antonio (*with* Fefferman, Charles L.; Seco, Luis A.) A number-theoretic estimate for the Thomas-Fermi density. (English summary) **97f:81181**
Elekes, G. (*with* Erdős, Paul[1]) Similar configurations and pseudo grids. **97b:52020**
Erdős, Paul[1] *see* **Elekes, G., 97b:52020**
Eskin, Alex (*with* Mozes, Shahar; Shah, Nimish A.) Unipotent flows and counting lattice points on homogeneous varieties. **97d:22012**
Fefferman, Charles L. *see* **Córdoba, Antonio; et al., 97f:81181**
Huxley, Martin N. ★ Area, lattice points, and exponential sums. **97g:11088**
Mozes, Shahar *see* **Eskin, Alex; et al., 97d:22012**
Pleasants, Peter A. B. (*with* Baake, Michael; Roth, Johannes) Planar coincidences for N-fold symmetry. (English summary) **97f:11050**
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— (*with* Crippa, Davide; Simon, Klaus) q-series arising from the study of random graphs. (English summary) **97k:11021**
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Bressoud, David M. The Borwein conjecture and partitions with prescribed hook differences. (English summary) **97j:05014**
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11P82 Analytic theory of partitions

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11P83 Partitions; congruences and congruential restrictions

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— A combinatorial correspondence related to Göllnitz' (big) partition theorem and applications. (English summary) **97f:11106**
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Hirschhorn, Michael D. (*with* Sellers, James A.) Two congruences involving 4-cores. (English summary) **97f:11085**
— (*with* Sellers, James A.) Some amazing facts about 4-cores. (English summary) **97i:11107**
Kedem, Rinat (*with* McCoy, Barry M.; Melzer, Ezer) The sums of Rogers, Schur and Ramanujan and the Bose-Fermi correspondence in $(1 + 1)$-dimensional quantum field theory. (English summary) **97j:11049**
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Ono, Ken Congruences for Frobenius partitions. (English summary) **97e:11130**
— Parity of the partition function in arithmetic progressions. **97e:11131**
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Berkovich, Alexander (*with* McCoy, Barry M.) Continued fractions and fermionic representations for characters of $M(p, p')$ minimal models. (English summary) **97f:81044**
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11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

11R04 Algebraic numbers; rings of algebraic integers

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Dubickas, A. On the average difference between two conjugates of an algebraic number. (English and Lithuanian summaries) **97e:11132**
Gaál, István Application of Thue equations to computing power integral bases in algebraic number fields. **97m:11130**
Klebel, Martin On the theory of integral power bases for relative Galois number field extensions. (English summary)
Langevin, Michel Problèmes de Favard et de Lehmer generalisés. (English summary) [Generalized Favard and Lehmer problems] **97a:11168**
Lašťák, Miroslav (*with* Porubský, Štefan) Fermat-Euler theorem in algebraic number fields. (English summary) **97f:11086**
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Robinson, M. L. *see* **Arno, Steven; et al., 97b:11124**
Spearman, Blair K. (*with* Williams, Kenneth S.) Normal relative integral bases for quartic fields over quadratic subfields. (English summary) **97h:11121**
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Amoroso, Francesco Algebraic numbers close to 1 and variants of Mahler's measure. (English summary) **97g:11075**
Bugeaud, Yann (*with* Mignotte, Maurice; Normandin, Frédéric) Nombres algébriques de petite mesure et formes linéaires en un logarithme. (English and French summaries) [Algebraic numbers of small height and linear forms in one logarithm] **97b:11098**
Chen, Nan Xian (*with* Chen, Zhao Dou; Shen, Ya Nan) Rings of Gauss and Eisenstein's integers and their physical applications. (English summary) **97d:11195**
— (*with* Chen, Zhao Dou; Liu, Shaojun; Shen, Ya Nan; Ge, Xijin) Algebraic rings of integers and some 2D lattice problems in physics. (English summary) **97j:82025**
Chen, Zhao Dou *see* **Chen, Nan Xian; et al., 97d:11195** *and* **97j:82025**
Dubickas, A. On algebraic numbers of small measure. (English and Lithuanian summaries) **97e:11133**
Enomoto, Masatoshi Erratum to: "C^*-algebras arising from algebraic number fields" [Bull. Koshien Univ. B No. 22 (1994), 5–7 (1995); MR 96d:46073].
Fieker, C. (*with* Jurk, A.; Pohst, Michael) On solving relative norm equations in algebraic number fields. (English summary) **97c:11118**
Ge, Xijin *see* **Chen, Nan Xian; et al., 97j:82025**
Jurk, A. *see* **Fieker, C.; et al., 97c:11118**
Kawamoto, Fuminori Normal bases of abelian extensions of S-integer rings. (Japanese) **97j:11055**
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Thunder, Jeffrey Lin (*with* Wolfskill, John) Algebraic integers of small discriminant. **97d:11166**
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Zhang, Xian Ke Relative integral bases of abelian q-fields. **97d:11160**

11R06 PV-numbers and generalizations; other special algebraic numbers

Boyd, David W. (*with* Mauldin, R. Daniel) The order type of the set of Pisot numbers. (English summary) **97b:11125**
Dubickas, A. On algebraic numbers of small measure. (English and Lithuanian summaries) **97e:11133**
Fabre, Stéphane Dépendance de systèmes de numération associés à des puissances d'un nombre de Pisot. (English and French summaries) [Dependence of number systems associated with the powers of a Pisot number] **97c:11098**
Mauldin, R. Daniel *see* **Boyd, David W., 97b:11125**
Zaïmi, Toufik Sur les K-nombres de Pisot de petite mesure. [Pisot K-numbers of small measure] **97h:11123**

Items with secondary classifications in 11R06

Kenyon, Richard The construction of self-similar tilings. (English summary) **97j:52025**
Silverman, Joseph H. Small Salem numbers, exceptional units, and Lehmer's conjecture. (English summary) **97k:11152**
Solomyak, Boris On the random series $\sum \pm\lambda^n$ (an Erdős problem). **97d:11125**

11R09 Polynomials (irreducibility, etc.)

Matveev, E. M. On a connection between the Mahler measure and the discriminant of algebraic numbers. (Russian. Russian summary) **97f:11087**
Mei, Han Fei Imaginary quadratic fields and irreducibility of polynomials with integer coefficients. (Chinese. English and Chinese summaries) **97d:11154**

Items with secondary classifications in 11R09

Amoroso, Francesco Algebraic numbers close to 1 and variants of Mahler's measure. (English summary) **97g:11075**
Bérczes, A. (*with* Hajdu, L.) Computational experiences on the distances of polynomials to irreducible polynomials. (English summary) **97e:11035**
Encarnación, Mark J. Computing GCDs of polynomials over algebraic number fields. (English summary) **97e:11117**
Garg, Hari Krishna On the factorization of polynomials and direct sum properties in integer polynomial rings. (English summary) **97e:11155**
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Müller, Peter[1] (*with* Völklein, Helmut) On a question of Davenport. (English summary) **97h:12012**
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Kaplan, Pierre (*with* Mimura, Yoshio) Développement en fraction continue à l'entier le plus proche, idéaux α-réduits et un problème d'Eisenstein. [Nearest-integer continued fraction expansion, α-reduced ideals and a problem of Eisenstein] **97e:11134**
Kervaire, Michel Corps quadratiques, $GL_2(\mathbf{Z})$ et polynômes de Dickson. (English and French summaries) [Quadratic fields, $GL_2(\mathbf{Z})$ and Dickson polynomials] **97h:11124**
Levesque, Claude (*with* Lu, Hong Wen) On S. Chowla's conjecture. **97b:11127**
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Mollin, Richard A. The palindromic index—a measure of ambiguous cycles of reduced ideals without any ambiguous ideals in real quadratic orders. (English summary) **97d:11155**
— ★ Quadratics. **97e:11135**
— Solutions of Diophantine equations and divisibility of class numbers of complex quadratic fields. **97h:11125**
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Stevenhagen, Peter Frobenius distributions for real quadratic orders. (English summary) **97g:11118**
Yamamura, Ken The maximal unramified extensions of the imaginary quadratic number fields with class number two. (English summary) **97g:11119**

Items with secondary classifications in 11R11

Byeon, Dongho (*with* Kim, Hyun Kwang) Class number 1 criteria for real quadratic fields of Richaud-Degert type. (English summary) **97h:11134**
— (*with* Kim, Hyun Kwang) Class number 2 criteria for real quadratic fields of Richaud-Degert type. (English summary) **97k:11153**
Chen, Nan Xian (*with* Chen, Zhao Dou; Shen, Ya Nan) Rings of Gauss and Eisenstein's integers and their physical applications. (English summary) **97d:11195**
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Coykendall, Jim Properties of the normset relating to the class group. (English summary) **97b:11130**
Hayashi, Yoshiki Gaußsche Summe von den quadratischen Zahlkörpern für allgemeine Diskriminanten $D = D_0 f^2$ (mit einer kleinen Tabelle). (English summary) [Gaussian sum of quadratic number fields for general discriminants $D = D_0 f^2$ (with a small table)] **97m:11107**
Huard, James G. (*with* Kaplan, Pierre; Williams, Kenneth S.) The Chowla-Selberg formula for genera. **97a:11062**
Jacobson, Michael J., Jr. (*with* Lukes, Richard F.; Williams, Hugh Cowie) An investigation of bounds for the regulator of quadratic fields. (English summary) **97d:11173**
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Kaplan, Pierre (*with* Williams, Kenneth S.) On a formula of Dirichlet. (English summary) **97k:11057**
— *see also* **Huard, James G.; et al., 97a:11062**
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Kim, Dae-Yeoul *see* **Park, Joong-Soo, 97k:11006**
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Leu, Ming-Guang On $L(1, \chi)$ and class number formula for the real quadratic fields. **97e:11103**
Louboutin, Stéphane (*with* Mollin, Richard A.) Bounds for class numbers of quadratic orders. **97a:11175**
Lu, Fang A lower bound for the exceptional field in Yokoi's conjecture. (Chinese. English and Chinese summaries) **97m:11136**
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Mollin, Richard A. (*with* Zhang, Liang Cheng) A new criterion for the determination of class numbers of real quadratic fields. (English summary) **97e:11103**
— Orders in quadratic fields. IV. (English summary) **97e:11104**
— Orders in quadratic fields. V. (English summary) **97e:11105**
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— *see also* **Louboutin, Stéphane, 97a:11175**
Nakahara, Toru Arithmetical variations of Dirichlet's class number formula for real quadratic fields. **97k:11159**
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Sczech, Robert A new formula for calculating Stark units over real quadratic number fields. **97f:11088**
Shen, Ya Nan *see* **Chen, Nan Xian; et al., 97d:11195**
Spearman, Blair K. (*with* Williams, Kenneth S.) Relative integral bases for quartic fields over quadratic subfields. **97d:11156**
— (*with* Williams, Kenneth S.) The intersection of two cyclotomic extensions of a quadratic field. (English summary) **97c:11099**
Srinivas Rau, S. (*with* Uma, B.) Square-free ideals in quadratic fields and the Dedekind zeta function. **97j:11057**
Stevenhagen, Peter On a problem of Eisenstein. **97b:11138**
Taya, Hisao On cyclotomic $\mathbf{Z}_p$-extensions of real quadratic fields. **97c:11101**
Uma, B. *see* **Srinivas Rau, S., 97j:11057**
Urbanowicz, Jerzy On Diophantine equations involving sums of powers with quadratic characters as coefficients. II. (English summary) **97m:11047**
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Yuan, Ping Zhi D-invariants and the solvability of $kx^2 - ly^2 = 1, 2$. **97m:11038**
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11R16 Cubic and quartic extensions

Byeon, Dongho Class number one problem for pure cubic fields of Rudman-Stender type. **97h:11126**
Clark, David A. Non-Galois cubic fields which are Euclidean but not norm-Euclidean. (English summary) **97a:11169**
Huard, James G. (*with* Spearman, Blair K.; Williams, Kenneth S.) Discriminant of the normal closure of a dihedral quartic field. **97h:11127**
Nakamula, Ken Certain quartic fields with small regulators. (English summary) **97h:11128**
Schneiders, Ursula Estimating the 2-rank of cubic fields by Selmer groups of elliptic curves. (English summary) **97k:11142**
Spearman, Blair K. (*with* Williams, Kenneth S.) Relative integral bases for quartic fields over quadratic subfields. **97d:11156**
— (*with* Williams, Kenneth S.) The conductor of a cyclic quartic field. (English summary) **97h:11129**
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Items with secondary classifications in 11R16

Adongo, Harun P. K. The Diophantine equation $3u^2 - 2 = v^6$. (English summary) **97k:11038**
Belabas, K. A fast algorithm to compute cubic fields. (English summary) **97m:11159**
Dummit, David S. (*with* Sands, Jonathan W.; Tangedal, Brett A.) Computing Stark units for totally real cubic fields. (English summary) **97i:11110**
Gaál, István (*with* Pethő, Attila; Pohst, Michael) On the resolution of index form equations in biquadratic number fields. III. The bicyclic biquadratic case. (English summary) **97a:11052**
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11R18 Cyclotomic extensions

Anderson, Greg W. Another look at the index formulas of cyclotomic number theory. (English summary) **97i:11108**
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Spearman, Blair K. (*with* Williams, Kenneth S.) The intersection of two cyclotomic extensions of a quadratic field. (English summary) **97c:11099**
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Khare, Chandrashekhar Compatible systems of mod p Galois representations. (English and French summaries) **97g:11125**
Kraft, James S. (*with* Schoof, René) Computing Iwasawa modules of real quadratic number fields. (English summary) **97b:11129**
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Girstmair, Kurt A remark on normal bases. **97d:11159**
Lamprecht, E. Über zyklische Erweiterungen p-ten Grades von Körpern, die die p-ten Einheitswurzeln nicht enthalten. [On pth degree cyclic extensions of fields not containing pth roots of unity] **97k:11148**
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— Classification of abelian q-fields and prime ideal decompositions. (Chinese)

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Jeannin, Stéphane Nombre de classes et unités des corps de nombres cycliques quintiques d'E. Lehmer. (English and French summaries) [Class number and units of E. Lehmer's quintic cyclic number fields] **97k:11154**
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11R23 Iwasawa theory

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Michel, Alexis A look at Kani's formulae via Iwasawa theory. (English and French summaries) **97d:11161**
Ozaki, Manabu (*with* Taya, Hisao) A note on Greenberg's conjecture for real abelian number fields. **97d:11162**
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Saby, Nicolas Théorie d'Iwasawa géométrique: un théorème de comparaison. (English and French summaries) [Geometric Iwasawa theory: a comparison theorem] **97f:11046**
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Bley, W. Galois module structure and elliptic functions. (English summary) **97a:11179**
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11R29 Class numbers, class groups, discriminants

Agoh, Takashi (*with* Skula, Ladislav) Kummer type congruences and Stickelberger subideals. **97j:11052**
Byeon, Dongho (*with* Kim, Hyun Kwang) Class number 1 criteria for real quadratic fields of Richaud-Degert type. (English summary) **97h:11134**
— (*with* Kim, Hyun Kwang) Class number 2 criteria for real quadratic fields of Richaud-Degert type. (English summary) **97k:11153**
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Bae, Sunghan (*with* Koo, Ja Kyung) Genus theory for function fields. (English summary) **97l:11111**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang Cheng) Ramanujan's class invariants, Kronecker's limit formula, and modular equations. **97l:11039**
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Byeon, Dongho Class number one problem for pure cubic fields of Rudman-Stender type. **97h:11126**
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Hetrodt, Georg Über einen Zusammenhang zwischen der Spektraltheorie automorpher Funktionen auf dem oberen Halbraum und den Klassenzahlen biquadratischer Zahlkörper. [On a connection between the spectral theory of automorphic functions on the upper half-space and the class numbers of biquadratic number fields] **97j:11025**
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— (*with* Spearman, Blair K.; Williams, Kenneth S.) Discriminant of the normal closure of a dihedral quartic field. **97h:11127**
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Leu, Ming-Guang On $L(1, \chi)$ and class number formula for the real quadratic fields. **97e:11103**
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Mollin, Richard A. The palindromic index—a measure of ambiguous cycles of reduced ideals without any ambiguous ideals in real quadratic orders. (English summary) **97d:11155**
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— Solutions of Diophantine equations and divisibility of class numbers of complex quadratic fields. **97h:11125**
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Spearman, Blair K. (*with* Williams, Kenneth S.) Relative integral bases for quartic fields over quadratic subfields. **97d:11156**
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Williams, Hugh Cowie *see* **Jacobson, Michael J., Jr.; et al., 97d:11173**
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Xu, FuHua *see* **Zhang, Xian Ke, 97f:11109**
Yamamura, Ken The maximal unramified extensions of the imaginary quadratic number fields with class number two. (English summary) **97g:11119**
Zhang, Liang Cheng Ramanujan's class invariants, Kronecker's limit formula and modular equations. II. **97f:11040**
— *see also* **Berndt, Bruce C.; et al., 97f:11039**
Zhang, Xian Ke (*with* Xu, FuHua) Existence of integral bases for relative extensions of n-cyclic number fields. (English summary) **97f:11109**

11R32 Galois theory

Girnius, Zara (*with* Liedahl, Steven) K-admissibility of $S_{12}, S_{13}, S_{14}, S_{15}$. **97j:11054**
Greither, Cornelius On Chinburg's second conjecture for abelian fields. **97e:11139**
Hooper, J. J. (*with* Tran, M. V.) Chinburg's second conjecture for quaternion fields. **97d:11168**
Ishkhanov, V. V. (*with* Lur′e, B. B.) An embedding problem with a noncommutative kernel of order p^4. VI. (Russian. Russian summary) **97e:11106**
Jensen, Christian U. (*with* Prestel, Alexander) Finitely generated pro-p-groups as Galois groups of maximal p-extensions of function fields over $\mathbf{Q}_q$. **97f:11091**
Liedahl, Steven *see* **Girnius, Zara, 97j:11054**
Lur′e, B. B. *see* **Ishkhanov, V. V., 97c:11106**
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Girstmair, Kurt A remark on normal bases. **97d:11159**
Gruenberg, Karl W. Some applications of integral representations of finite groups. **97j:20002**
Hung, Wan-Hui *see* **Lee, Hong-Chang, 97d:11068**
Ihara, Yasutaka (*with* Nakamura, Hiroaki) On universal field of definition of Galois-Teichmüller towers—deformations of maximally degenerate curves and Oda's conjecture. (Japanese) (*see* **97f:11002**)
Jarden, Moshe Infinite Galois theory. **97h:12011**
Lee, Hong-Chang (*with* Hung, Wan-Hui) Galois groups of Hecke eigenforms. (English summary) **97d:11068**
Liedahl, Steven K-admissibility of wreath products of cyclic p-groups. (English summary) **97j:11059**
Madan, Manohar L. (*with* Rzedowski-Calderón, Martha; Villa Salvador, Gabriel) Galois extensions with bounded ramification in characteristic p. On a question of S. Abhyankar. (English summary) **97e:12005**
Mestre, Jean-François Constructions polynomiales et théorie de Galois. [Polynomial constructions and Galois theory] (*see* **97c:00049**)
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Morton, Patrick On certain algebraic curves related to polynomial maps. (English summary) **97m:14030**
Müller, Peter[1] An infinite series of Kronecker conjugate polynomials. (English summary) **97i:11022**
Nakamura, Hiroaki *see* **Ihara, Yasutaka, (97f:11002)**
Rohrlich, David E. Galois theory, elliptic curves, and root numbers. **97m:11075**
— Galois representations in the Tate-Shafarevich group of an elliptic curve. **97c:11061**
Rzedowski-Calderón, Martha *see* **Madan, Manohar L.; et al., 97e:12005**
Spearman, Blair K. (*with* Williams, Kenneth S.) On solvable quintics $X^5 + aX + b$ and $X^5 + aX^2 + b$. (English summary) **97e:12003**
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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

Agboola, A. A note on elliptic curves and Galois module structure in global function fields. (English summary) **97b:11134**
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— Carlitz modules and Galois module structure. (English summary) **97m:11137**
Bley, W. Galois module structure and elliptic functions. (English summary) **97a:11179**
— (*with* Burns, David J.) Über arithmetische assoziierte Ordnungen. (English summary) [On arithmetic associated orders] **97e:11140**
Burns, David J. (*with* Holland, David) Chinburg's third invariant for abelian extensions of imaginary quadratic fields. **97g:11124**
— *see also* **Bley, W., 97e:11140**
Byott, Nigel P. (*with* Lettl, Günter) Relative Galois module structure of integers of abelian fields. (English and French summaries) **97d:11169**
Cassou-Nogues, Philippe (*with* Taylor, Martin J.) Structures galoisiennes et courbes elliptiques. [Galois structures and elliptic curves] **97k:11160**
De Smit, Bart Factor equivalence results for integers and units. (English summary) **97m:11138**
— On a conductor discriminant formula of McCulloh. **97d:11171**
Gómez Ayala, E. J. Normal bases for quadratic extensions inside cyclotomic fields. **97a:11180**
Gruenberg, Karl W. (*with* Weiss, Alfred R.) Galois invariants for local units. **97e:11141**
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Ichimura, Humio On a normal integral bases problem over cyclotomic $\mathbf{Z}_p$-extensions. **97h:11137**
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Morishita, Masanori Integral representations of unramified Galois groups and matrix divisors over number fields. **97a:11181**
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Rogers, Michael On a multiplicative-additive Galois invariant and wildly ramified extensions. (English summary) **97f:11092**
Rzedowski-Calderón, Martha (*with* Villa Salvador, Gabriel; Madan, Manohar L.) Galois module structure of holomorphic differentials in characteristic p. **97e:11142**
Taylor, Martin J. The trace form for tame, abelian extensions of number fields. **97f:11093**
— *see also* **Cassou-Nogues, Philippe, 97k:11160**
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Chapman, Robin J. A simple proof of Noether's theorem. **97a:11186**
Chinburg, T. (*with* Erez, B.; Pappas, Georgios; Taylor, Martin J.) Tame actions of group schemes: integrals and slices. **97d:14066**
Cornacchia, Pietro The parity of the class number of the cyclotomic fields of prime conductor. (English summary) **97m:11132**
Cougnard, J. Base normale dans un corps de classes de Hilbert. [Normal basis in a Hilbert class field] **97e:11143**
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Michel, Alexis A look at Kani's formulae via Iwasawa theory. (English and French summaries) **97d:11161**
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Rzedowski-Calderón, Martha (*with* Villa Salvador, Gabriel; Madan, Manohar L.) Galois module structure of Tate modules. **97k:14025**
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11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

Items with secondary classifications in 11R34

Burns, David J. (*with* Holland, David) Chinburg's third invariant for abelian extensions of imaginary quadratic fields. **97g:11124**
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Holland, David *see* **Burns, David J., 97g:11124**
Kolster, Manfred (*with* Nguyen Quang Do, Thong; Fleckinger, Vincent) Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures. **97g:11136**
Nguyen Quang Do, Thong *see* **Kolster, Manfred; et al., 97g:11136**
Rubin, Karl Euler systems and exact formulas in number theory. **97a:11104**
Saito, Takeshi The sign of the functional equation of the Hasse-Weil L-function. (Japanese) **97i:11073**
Spieß, Michael An arithmetic proof of Pop's theorem concerning Galois groups of function fields over number fields. **97h:11144**

11R37 Class field theory

Cougnard, J. Base normale dans un corps de classes de Hilbert. [Normal basis in a Hilbert class field] **97e:11143**
Folk, David When are global units norms of units? **97b:11135**
Hajir, Farshid On a theorem of Koch. (English summary) **97k:11161**
Khare, Chandrashekhar Compatible systems of mod p Galois representations. (English and French summaries) **97g:11125**
Narkiewicz, Władysław Global class-field theory. **97m:11139**
Roblot, Xavier-François Unités de Stark et corps de classes de Hilbert. (English and French summaries) [Stark units and Hilbert class fields] **97k:11162**

Items with secondary classifications in 11R37

Acciaro, Vincenzo Solvability of norm equations over cyclic number fields of prime degree. (English summary) **97a:11205**
Burns, David J. (*with* Holland, David) Chinburg's third invariant for abelian extensions of imaginary quadratic fields. **97g:11124**
Holland, David *see* **Burns, David J., 97g:11124**
Howe, Everett W. The Weil pairing and the Hilbert symbol. **97b:11084**
Kiebel, Martin On the theory of integral power bases for relative Galois number field extensions. (English summary)
Louboutin, Stéphane The CM-fields with class number one which are Hilbert class fields of quadratic fields. **97b:11131**
Miki, Hiroo Jacobi sums and the Hilbert symbol for a power of two. **97a:11125**
Niederreiter, Harald (*with* Xing, Chaoping) Cyclotomic function fields, Hilbert class fields, and global function fields with many rational places. **97m:11141**
Stevenhagen, Peter Rédei-matrices and applications. **97b:11132**
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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

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Bump, Daniel ★ Automorphic forms and representations. **97k:11080**
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Frenkel, Edward Affine algebras, Langlands duality and Bethe ansatz. **97k:17036**
Gekeler, Ernst-Ulrich (*with* Reversat, Marc) Jacobians of Drinfeld modular curves. **97f:11043**
Holzapfel, Rolf-Peter ★ The ball and some Hilbert problems. (English summary) **97g:11059**
Kapranov, M. M. Analogies between the Langlands correspondence and topological quantum field theory. **97c:11069**
Khare, Chandrashekhar Compatible systems of mod p Galois representations. (English and French summaries) **97g:11125**
— Remarks on mod p forms of weight one. **97m:11070**
Knapp, Anthony W. Group representations and harmonic analysis. II. **97i:11002**
Lafforgue, Laurent Sur la conjecture de Ramanujan-Petersson pour les corps de fonctions. I. Étude géométrique. (English and French summaries) [The Ramanujan-Petersson conjecture for function fields. I. Geometric study] **97g:11055**
— Sur la conjecture de Ramanujan-Petersson pour les corps de fonctions. II. Étude spectrale. (English and French summaries) [On the Ramanujan-Petersson conjecture over function fields. II. Spectral study] **97g:11056**
Lario, Joan-C. (*with* Rio, Anna) Elliptic modularity for octahedral Galois representations. (English summary) **97d:11088**
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Robbins, Neville Fibonacci partitions. **97i:11105**

11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

Duke, William (*with* Friedlander, John B.; Iwaniec, Henryk) Class group L-functions. **97h:11138**
Dummit, David S. (*with* Sands, Jonathan W.; Tangedal, Brett A.) Computing Stark units for totally real cubic fields. (English summary) **97i:11110**
Foote, Richard M. Sylow 2-subgroups of Galois groups arising as minimal counterexamples to Artin's conjecture. **97j:11056**
Frenkel, Edward (*with* Szenes, András) Thermodynamic Bethe ansatz and dilogarithm identities. I. (English summary) **97a:11182**
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Heath-Brown, D. R. Acknowledgment of priority: "The growth rate of the Dedekind zeta-function on the critical line" [Acta Arith. **49** (1988), no. 4, 323–339; MR 89e:11071]. **97h:11139**
Iwaniec, Henryk *see* **Duke, William; et al., 97h:11138**
Jacobson, Michael J., Jr. (*with* Lukes, Richard F.; Williams, Hugh Cowie) An investigation of bounds for the regulator of quadratic fields. (English summary) **97d:11173**
Khan, Mizan R. Computation of partial zeta values at $s = 0$ over a totally real cubic field. (English summary) **97g:11126**
Lukes, Richard F. *see* **Jacobson, Michael J., Jr.; et al., 97d:11173**
Rubin, Karl A Stark conjecture "over Z" for abelian L-functions with multiple zeros. (English and French summaries) **97d:11174**
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Solomon, David p-adic limits of Shintani generating functions for a real quadratic field. (English summary) **97m:11140**
Srinivas Rau, S. (*with* Uma, B.) Square-free ideals in quadratic fields and the Dedekind zeta function. **97j:11057**
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Byeon, Dongho (*with* Kim, Hyun Kwang) Class number 2 criteria for real quadratic fields of Richaud-Degert type. (English summary) **97k:11153**
De Smit, Bart Factor equivalence results for integers and units. (English summary) **97m:11138**
Fleckinger, Vincent *see* **Kolster, Manfred; et al., 97g:11136**
Gangl, Herbert Families of functional equations for polylogarithms. **97g:19009**
Goncharov, A. B. Polylogarithms in arithmetic and geometry. **97h:19010**
Guo, Li[1] On the Bloch-Kato conjecture for Hecke L-functions. **97c:11100**
Hironaka, Yumiko Rational binary quadratic forms and Hecke L-functions with Grössen characters. **97i:11036**
Ichimura, Humio A problem related to p-adic L-functions and normal integral bases. (Japanese) **97h:11132**
Kim, Hyun Kwang *see* **Byeon, Dongho, 97k:11153**
Kolster, Manfred (*with* Nguyen Quang Do, Thong; Fleckinger, Vincent) Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures. **97g:11136**
Louboutin, Stéphane Computation of relative class numbers of CM-fields. (English summary) **97k:11157**
Moroz, B. Z. Exercises in analytic arithmetic on an algebraic torus. (English summary) **97b:11137**
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Pappalardi, Francesco On the r-rank Artin conjecture. (English summary) **97f:11082**
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11R44 Distribution of prime ideals [see also 11N05]

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Coleman, M. D. Relative norms of prime ideals in small regions. **97f:11094**
Hinz, Jürgen G. A generalization of a problem of Chebyshev. **97c:11107**
Lenstra, Hendrik W., Jr. *see* **Stevenhagen, Peter, 97e:11144**
Moroz, B. Z. Exercises in analytic arithmetic on an algebraic torus. (English summary) **97b:11137**
Stevenhagen, Peter (*with* Lenstra, Hendrik W., Jr.) Chebotarëv and his density theorem. **97e:11144**

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Bach, Eric (*with* Sorenson, Jonathan P.) Explicit bounds for primes in residue classes. (English summary) **97a:11143**
Powell, Corey Bounds for multiplicative cosets over fields of prime order. (English summary) **97f:11005**
Sorenson, Jonathan P. *see* **Bach, Eric, 97a:11143**
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11R45 Density theorems

Abel-Hollinger, Christine S. *see* **Buchmann, Johannes A., 97h:11140**
Buchmann, Johannes A. (*with* Abel-Hollinger, Christine S.) On smooth ideals in number fields. (English summary) **97h:11140**
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(Chebotarëv, Nikolaĭ Grigor'evich) *see* **Stevenhagen, Peter, 97e:11144**
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Pappalardi, Francesco On the r-rank Artin conjecture. (English summary) **97f:11082**
Serre, Jean-Pierre Répartition asymptotique des valeurs propres de l'opérateur de Hecke T_p. [Asymptotic distribution of the eigenvalues of the Hecke operator T_p] **97h:11048**
Stevenhagen, Peter Frobenius distributions for real quadratic orders. (English summary) **97g:11118**
— (*with* Lenstra, Hendrik W., Jr.) Chebotarëv and his density theorem. **97e:11144**
Zannier, Umberto Note on dense universal Hilbert sets. (English and French summaries) **97c:12001**

11R47 Other analytic theory [see also 11Nxx]

Hinz, Jürgen G. A note on a Bombieri-type result in algebraic prime number theory. **97d:11176**
Vladimirov, V. S. Adelic formulas for gamma and beta functions in algebraic number fields. (Russian) **97c:11108**

Items with secondary classifications in 11R47

Anderson, Greg W. Another look at the index formulas of cyclotomic number theory. (English summary) **97i:11108**
Meyer, Curt Zur Theorie und Praxis der elliptischen Einheiten. [On the theory and practice of elliptic units] **97d:11164**
Murty, M. Ram (*with* Rosen, Michael; Silverman, Joseph H.) Variations on a theme of Romanoff. (English summary) **97d:11093**
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11R52 Quaternion and other division algebras: arithmetic, zeta functions

Brzezinski, Juliusz Definite quaternion orders of class number one. **97h:11141**
Nakagawa, Jin Orders of a quaternion algebra over a number field. **97g:11128**

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Hasegawa, Yuji On some examples of modular QM-abelian surfaces. **97b:11062**
Hashimoto, Ki-ichiro On Brandt matrices of Eichler orders. (English summary) **97f:11031**
Liedahl, Steven Maximal subfields of $\mathbf{Q}(i)$-division rings. (English summary) **97h:12008**
Stephan, Jérôme Complémentaires d'entrelacs dans S^3 et ordres maximaux des algèbres de quaternions $\mathcal{A}_2(\mathbf{Q}[i\sqrt{d}])$. (English and French summaries) [Link complements in S^3 and maximal orders of the quaternion algebras $\mathcal{A}_2(\mathbf{Q}[i\sqrt{d}])$] **97c:57009**

11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

Lenstra, Hendrik W., Jr. Computing Jacobi symbols in algebraic number fields. (English summary) **97a:11183**

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Underwood, Robert Gene The valuative condition and R-Hopf algebra orders in KC_{p^2}. (English summary) **97e:11150**

11R56 Adèle rings and groups

Sapuzhak, T. M. *see* **Vladimirov, V. S., 97g:11129**
Vladimirov, V. S. Adelic formulas for gamma and beta functions of completions of algebraic number fields and their applications to string amplitudes. (Russian. Russian summary) **97e:11145**
— (*with* Sapuzhak, T. M.) Adèlic formulas for string amplitudes in fields of algebraic numbers. (English summary) **97g:11129**

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Li, Xian-Jin A note on the Riemann-Roch theorem for function fields. **97g:11131**
Roy, Damien (*with* Thunder, Jeffrey Lin) An absolute Siegel's lemma. **97h:11075**
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— *see also* **Roy, Damien, 97h:11075**

11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

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Dèbes, Pierre On a problem of Dvornicich and Zannier. **97e:11146**
Feng, Keqin (*with* Xu, Fei) Kolyvagin's "Euler systems" in cyclotomic function fields. **97h:11142**
Hsu, Chih-Nung A large sieve inequality for rational function fields. (English summary) **97e:11147**
Koo, Ja Kyung *see* **Bae, Sunghan, 97i:11111**
Le Brigand, Dominique Quadratic algebraic function fields with ideal class number two. (English summary) **97g:11130**
— Classification of algebraic function fields with divisor class number two. (English summary) **97a:11184**
Li, Xian-Jin A note on the Riemann-Roch theorem for function fields. **97g:11131**
Niederreiter, Harald (*with* Xing, Chaoping) Explicit global function fields over the binary field with many rational places. **97d:11177**
— (*with* Xing, Chaoping) Cyclotomic function fields, Hilbert class fields, and global function fields with many rational places. **97m:11141**
Pappalardi, Francesco (*with* Shparlinskiĭ, I. E.) On Artin's conjecture over function fields. (English summary) **97g:11132**
Rosen, Michael A note on the relative class number in function fields. (English summary) **97g:11133**
Rück, Hans-Georg Theta series of imaginary quadratic function fields. (English summary) **97b:11139**
— Poincaré series of Drinfeld type. (English summary) **97m:11142**
Shiapentokh, Alexandra Polynomials with a given discriminant over fields of algebraic functions of positive characteristic. (English summary) **97h:11143**
Shparlinskiĭ, I. E. *see* **Pappalardi, Francesco, 97g:11132**
Spieß, Michael An arithmetic proof of Pop's theorem concerning Galois groups of function fields over number fields. **97h:11144**
Thakur, Dinesh S. Exponential and continued fractions. (English summary) **97h:11145**
Xing, Chaoping *see* **Niederreiter, Harald, 97d:11177** *and* **97m:11141**
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Zhao, Jianqiang Genus fields, conductors and relative integral bases for abelian function fields. (English summary) **97g:11134**

Items with secondary classifications in 11R58

Aiba, Akira[2] Carlitz modules and the Galois module structure of rings of integers. (Japanese) **97g:11123**
— Carlitz modules and Galois module structure. (English summary) **97m:11137**
Anderson, Greg W. Log-algebraicity of twisted A-harmonic series and special values of L-series in characteristic p. (English summary) **97h:11058**
Fried, Michael D. Introduction to modular towers: generalizing dihedral group–modular curve connections. (English summary) **97a:11070**
Garcia, Arnaldo (*with* Stichtenoth, Henning) Asymptotically good towers of function fields over finite fields. (English and French summaries) **97e:11072**
Goss, David ★ Basic structures of function field arithmetic. **97i:11062**
Madan, Manohar L. *see* **Rzedowski-Calderón, Martha; et al., 97e:11142**
Merrill, Kathy D. (*with* Walling, Lynne H.) On quadratic reciprocity over function fields. (English summary) **97a:11011**
Niederreiter, Harald (*with* Xing, Chaoping) Low-discrepancy sequences and global function fields with many rational places. (English summary) **97h:11080**
Pacheco, Amílcar Unramified Galois coverings of algebraic curves. (English summary) **97h:11063**
Rzedowski-Calderón, Martha (*with* Villa Salvador, Gabriel; Madan, Manohar L.) Galois module structure of holomorphic differentials in characteristic p. **97e:11142**
Stichtenoth, Henning *see* **Garcia, Arnaldo, 97e:11072**
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Walling, Lynne H. *see* **Merrill, Kathy D., 97a:11011**
Xing, Chaoping *see* **Niederreiter, Harald, 97h:11080**
Zhao, Jianqiang On root numbers connected with special values of L-functions over $\mathbf{F}_q(T)$. (English summary) **97k:11092**

11R65 Class groups and Picard groups of orders

Items with secondary classifications in 11R65

Kahl, Helmut Die Geschlechterzahl beliebiger Ordnungen in reell-quadratischen Zahlkörpern. [The genus of arbitrary orders in real-quadratic number fields] **97b:11126**
Mollin, Richard A. Orders in quadratic fields. IV. (English summary) **97c:11104**
— Orders in quadratic fields. V. (English summary) **97c:11105**

11R70 K-theory of global fields [see also 19Fxx]

Banaszak, Grzegorz (*with* Gajda, Wojciech) On the arithmetic of cyclotomic fields and the K-theory of $\mathbf{Q}$. (English summary) **97h:11146**
— (*with* Gajda, Wojciech) Euler systems for higher K-theory of number fields. **97g:11135**
Fleckinger, Vincent *see* **Kolster, Manfred; et al., 97g:11136**
Gajda, Wojciech *see* **Banaszak, Grzegorz, 97g:11135** *and* **97h:11146**
Kolster, Manfred (*with* Nguyen Quang Do, Thong; Fleckinger, Vincent) Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures. **97g:11136**
Nguyen Quang Do, Thong *see* **Kolster, Manfred; et al., 97g:11136**

Items with secondary classifications in 11R70

Borel, Armand Values of zeta-functions at integers, cohomology and polylogarithms. **97a:19005**
Goncharov, A. B. Polylogarithms in arithmetic and geometry. **97h:19010**
Kahn, Bruno On the Lichtenbaum-Quillen conjecture. (English summary) **97c:19005**
Kimura, Ken-Ichiro K_2 of a Fermat quotient and the value of its L-function. (English summary) **97h:19011**
Srinivas, Vasudevan ★ Algebraic K-theory. (English summary) **97c:19001**
Urbanowicz, Jerzy On Diophantine equations involving sums of powers with quadratic characters as coefficients. II. (English summary) **97m:11047**

11R80 Totally real and totally positive fields [see also 12J15]

Items with secondary classifications in 11R80

Dummit, David S. (*with* Sands, Jonathan W.; Tangedal, Brett A.) Computing Stark units for totally real cubic fields. (English summary) **97i:11110**
Marko, František On the existence of p-units and Minkowski units in totally real cyclic fields. (English summary) **97k:11151**
Sands, Jonathan W. *see* **Dummit, David S.; et al., 97i:11110**
Solomon, David p-adic limits of Shintani generating functions for a real quadratic field. (English summary) **97m:11140**
Tangedal, Brett A. *see* **Dummit, David S.; et al., 97i:11110**

11Sxx Algebraic number theory: local and p-adic fields

11S05 Polynomials

Items with secondary classifications in 11S05

Nair, Mohan (*with* Perelli, Alberto) A sieve fundamental lemma for polynomials in two variables. **97j:11045**
Perelli, Alberto *see* **Nair, Mohan, 97j:11045**
(Schinzel, Andrzej) *see* **Nair, Mohan, 97j:11045**
Schmidt, Wolfgang M. (*with* Stewart, C. L.) Congruences, trees, and p-adic integers. (English summary) **97e:11045**
Stewart, C. L. *see* **Schmidt, Wolfgang M., 97e:11045**
(Zannier, Umberto) *see* **Nair, Mohan, 97j:11045**

11S15 Ramification and extension theory

Abrashkin, V. A. A ramification filtration of the Galois group of a local field. **97a:11185**
Benson, Steven R. A new lower bound for corresponding residue systems in normal, totally ramified extensions of number fields. **97b:11140**
Childs, Lindsay N. Hopf Galois structures on degree p^2 cyclic extensions of local fields. (English summary) **97j:11058**
Fesenko, Ivan B. On general local reciprocity maps. **97b:11141**

Heiermann, Volker De nouveaux invariants numériques pour les extensions totalement ramifiées de corps locaux. (French summary) [New numerical invariants for fully ramified extensions of local fields] **97e:11148**
Li, Hua-Chieh Counting periodic points of p-adic power series. (English summary) **97c:11109**
Vostokov, S. V. Decomposability of ideals in splitting p-extensions of local fields. (Russian. English and Russian summaries) **97k:11164**
— (*with* Zhukov, I. B.) Some approaches to the construction of abelian extensions for p-adic fields. **97e:11149**
Zhukov, I. B. *see* **Vostokov, S. V., 97e:11149**

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Coates, J. (*with* Greenberg, Ralph) Kummer theory for abelian varieties over local fields. **97b:11079**
Greenberg, Ralph *see* **Coates, J., 97b:11079**
Lamprecht, E. Über zyklische Erweiterungen p-ten Grades von Körpern, die die p-ten Einheitswurzeln nicht enthalten. [On pth degree cyclic extensions of fields not containing pth roots of unity] **97k:11148**
Schmidt, Alexander An arithmetic site for the rings of integers of algebraic number fields. **97b:11133**

11S20 Galois theory

Chapman, Robin J. A simple proof of Noether's theorem. **97a:11186**
Liedahl, Steven K-admissibility of wreath products of cyclic p-groups. (English summary) **97j:11059**
Yamagata, Shuji A remark on integral representations associated with p-adic field extensions. **97a:11187**

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Abrashkin, V. A. A ramification filtration of the Galois group of a local field. **97a:11185**
Fesenko, Ivan B. On general local reciprocity maps. **97b:11141**
Heiermann, Volker De nouveaux invariants numériques pour les extensions totalement ramifiées de corps locaux. (French summary) [New numerical invariants for fully ramified extensions of local fields] **97e:11148**
Jarden, Moshe Infinite Galois theory. **97h:12011**
Jensen, Christian U. (*with* Prestel, Alexander) Finitely generated pro-p-groups as Galois groups of maximal p-extensions of function fields over $\mathbf{Q}_q$. **97f:11091**
Pop, Florian Embedding problems over large fields. **97h:12013**
Prestel, Alexander *see* **Jensen, Christian U., 97f:11091**

11S23 Integral representations

Items with secondary classifications in 11S23

Bley, W. (*with* Burns, David J.) Über arithmetische assoziierte Ordnungen. (English summary) [On arithmetic associated orders] **97e:11140**
Burns, David J. *see* **Bley, W., 97e:11140**
Childs, Lindsay N. Hopf Galois structures on degree p^2 cyclic extensions of local fields. (English summary) **97j:11058**
Underwood, Robert Gene The group of Galois extensions over orders in KC_{p^2}. (English summary) **97f:16035**

11S25 Galois cohomology [see also 12Gxx, 16H05]

Items with secondary classifications in 11S25

Guo, Li[1] On the Bloch-Kato conjecture for Hecke L-functions. **97e:11100**

11S31 Class field theory; p-adic formal groups [see also 14L05]

Baldassarri, Francesco Special values of symmetric hypergeometric functions. **97a:11188**
Benua, D. G. On p-adic representations arising from formal groups. **97a:11189**
Demchenko, O. V. *see* **Vostokov, S. V., 97b:11142**
Fesenko, Ivan B. On norm subgroups of complete discretely valued fields. (Russian. English and Russian summaries) **97a:11190**
Gurevich, A. N. *see* **Vostokov, S. V., 97b:11143**
Koch, Helmut (*with* de Shalit, Ehud) Metabelian local class field theory. **97f:11095**
Li, Hua-Chieh p-adic power series which commute under composition. (English summary) **97h:11147**
de Shalit, Ehud *see* **Koch, Helmut, 97f:11095**
Tsumura, Hirofumi On p-adic log-Γ-functions associated to the Lubin-Tate formal groups. **97k:11165**
Vostokov, S. V. Artin-Hasse exponentials and Bernoulli numbers. **97c:11110**
— (*with* Demchenko, O. V.) Explicit form of the Hilbert pairing for relative formal Lubin-Tate groups. (Russian. Russian summary) **97b:11142**
— (*with* Gurevich, A. N.) A relationship between the Hilbert symbol and the Witt symbol. (Russian. Russian summary) **97b:11143**
Yu, Jiu-Kang On the moduli of quasi-canonical liftings. **97b:11144**

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Chai, Ching-Li The group action on the closed fiber of the Lubin-Tate moduli space. **97h:14064**
Vostokov, S. V. The pairing on K-groups in fields of valuation of rank n. **97d:11180**
— (*with* Zhukov, I. B.) Some approaches to the construction of abelian extensions for p-adic fields. **97e:11149**
Yamagata, Shuji A remark on integral representations associated with p-adic field extensions. **97a:11187**
Zhukov, I. B. *see* **Vostokov, S. V., 97e:11149**

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Gyōja, Akihiko Prehomogeneous vector spaces over finite fields. **97i:11112**
Takahashi, Tetsuya Character formula for representations of local quaternion algebras (wildly ramified case). **97f:11096**
Tandon, Rajat Conductors of representations of Weil groups. **97f:11097**

Items with secondary classifications in 11S37

Broussous, Paul ★ Le dual admissible d'une algèbre à division locale: une paramétrisation par des types simples à la Bushnell et Kutzko. (French. French summary) [Admissible dual of a local division algebra: a parametrization by simple types à la Bushnell and Kutzko] **97i:22007**
— Extension du formalisme de Bushnell et Kutzko au cas d'une algèbre à division. (English and French summaries) [Extension of Bushnell and Kutzko's classification to the division algebra case] **97f:22028**
Kim, Donggyun Explicit forms of local lifting for GL_2. (English summary) **97d:22021**
Larsen, Michael Jeffrey Maximality of Galois actions for compatible systems. **97a:11090**

11S40 Zeta functions and L-functions [see also 11M41, 19F27]

Kim, Han-Soo (*with* Lim, Pil-Sang; Kim, Taekyun) A remark on p-adic q-Bernoulli measure. **97b:11145**
Kim, Taekyun *see* **Kim, Han-Soo; et al., 97b:11145**
Lim, Pil-Sang *see* **Kim, Han-Soo; et al., 97b:11145**
Lin, Ts'ung Yu'an On Igusa's local zeta functions of two variables with two characteristic exponents. **97a:11191**
Lubotzky, Alexander *see* **du Sautoy, Marcus P. F., 97g:11137**
Martin, Roland On simple Igusa local zeta functions. (English summary) **97b:11146**
— A counterexample in the theory of local zeta functions. (English summary) **97d:11178**
Robinson, Margaret M. The Igusa local zeta function associated with the singular cases of the determinant and the Pfaffian. (English summary) **97d:11179**
du Sautoy, Marcus P. F. (*with* Lubotzky, Alexander) Functional equations and uniformity for local zeta functions of nilpotent groups. (English summary) **97g:11137**
Veys, Willem Determination of the poles of the topological zeta function for curves. (English summary) **97a:11192**
Yukie, Akihiko On the convergence of the zeta function for certain prehomogeneous vector spaces. **97k:11166**

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Foote, Richard M. Sylow 2-subgroups of Galois groups arising as minimal counterexamples to Artin's conjecture. **97j:11056**
Gunaratne, H. Sunil Periodicity of Kummer congruences. (English summary) **97b:11024**
Kim, Han-Soo (*with* Kim, Taekyun) Remark on q-analogues of p-adic L-functions. (English summary) **97g:11016**
Kim, Taekyun *see* **Kim, Han-Soo, 97g:11016**
Kimura, Tatsuo An introduction to prehomogeneous vector spaces. (Japanese) **97k:11065**
Lin, Ts'ung Yu'an On the numbers of solutions to a congruence equation. (English summary) **97g:11036**
Saito, Hiroshi[1] The calculation of zeta functions of prehomogeneous vector spaces. (Japanese) **97g:11096**

11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

Underwood, Robert Gene The valuative condition and R-Hopf algebra orders in KC_{p^2}. (English summary) **97e:11150**

Items with secondary classifications in 11S45

Boston, Nigel A probabilistic generalization of the Riemann zeta function. **97e:11106**
De Smit, Bart On a conductor discriminant formula of McCulloh. **97d:11171**
Robinson, Margaret M. The Igusa local zeta function associated with the singular cases of the determinant and the Pfaffian. (English summary) **97d:11179**
Schwartz, Anne (*with* Shemanske, Thomas R.) Maximal orders in central simple algebras and Bruhat-Tits buildings. (English summary) **97h:20039**
Shemanske, Thomas R. *see* **Schwartz, Anne, 97h:20039**
Takahashi, Tetsuya Character formula for representations of local quaternion algebras (wildly ramified case). **97f:11096**

11S70 K-theory of local fields [see also 19Fxx]

Vostokov, S. V. The pairing on K-groups in fields of valuation of rank n. **97d:11180**

Items with secondary classifications in 11S70

Bökstedt, M. (*with* Madsen, Ib) Algebraic K-theory of local number fields: the unramified case. **97e:19004**
Fesenko, Ivan B. On norm subgroups of complete discretely valued fields. (Russian. English and Russian summaries) **97a:11190**
Kahn, Bruno On the Lichtenbaum-Quillen conjecture. (English summary) **97c:19005**
Madsen, Ib *see* **Bökstedt, M., 97e:19004**
Madunts, A. I. (*with* Zhukov, I. B.) Multidimensional complete fields: topology and other basic constructions. **97b:12009**
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11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

Burger, Edward B. (*with* Struppeck, Thomas) Does $\sum_{n=0}^{\infty} 1/n!$ really converge? Infinite

series and p-adic analysis or "You can sum some of the series some of the time and some of the series none of the time... but can you sum some of the series all of the time?". **97g:11138**

Dragović, B. G. On p-adic series in mathematical physics. (English summary) **97a:11193**

Kim, Han-Soo (*with* Kim, Taekyun) On p-adic differentiable and bounded functions. (English summary) **97d:11181**

Kim, Taekyun *see* **Kim, Han-Soo, 97d:11181**

Kudo, Aichi On p-adic Dedekind sums. **97m:11143**

Mazouz, Abdelhak Analyse p-adique et congruences des coefficients de la série e^{xe^x}. [p-adic analysis and congruences of the coefficients of the series e^{xe^x}] **97m:11144**

Nakata, Mie The characterization of the rth power of balls in p-adic field. (English summary) **97i:11113**

Struppeck, Thomas *see* **Burger, Edward B., 97g:11138**

Woodcock, C. F. A p-adic analog of Wirtinger's inequality. **97h:11148**

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Boja, N. The total absolute curvature for immersed p-adic compact submanifolds. (English summary) **97c:53028**

Boutabaa, Abdelbaki Sur les courbes holomorphes p-adiques. (English and French summaries) [On p-adic holomorphic curves] **97g:32029**

Kim, Han-Soo (*with* Kim, Taekyun) Remark on q-analogues of p-adic L-functions. (English summary) **97g:11016**

— (*with* Kim, Taekyun) On a q-analogue of the p-adic log gamma functions and related integrals. (English summary) **97h:11013**

— (*with* Lim, Pil-Sang; Kim, Taekyun) A remark on p-adic q-Bernoulli measure. **97b:11145**

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Lim, Pil-Sang *see* **Kim, Han-Soo; et al., 97b:11145**

Liu, Chun Lei[1] On character sums of rational functions over local fields. **97h:11090**

Mazouz, Abdelhak Analyse p-adique et nombres de Bell à deux variables. [p-adic analysis and bivariate Bell numbers] **97i:11016**

Piltant, Olivier Frobenius pour les sommes de Selberg. [Frobenius for Selberg sums] **97a:11128**

Tsumura, Hirofumi On p-adic log-Γ-functions associated to the Lubin-Tate formal groups. **97k:11165**

11S85 Other nonanalytic theory

Items with secondary classifications in 11S85

Adelberg, Arnold Congruences of p-adic integer order Bernoulli numbers. (English summary) **97e:11028**

Frampton, P. H. Retrospective on p-adic string theory. **97f:81121**

Goresky, R. Mark *see* **Klapper, Andrew, 97m:94016**

Isogawa, Satoru *see* **Motoda, Yasuo, 97h:11009**

Klapper, Andrew (*with* Goresky, R. Mark) Cryptanalysis based on 2-adic rational approximation. (English summary) **97m:94016**

Laubie, F. (*with* Movahhedi, A.) Substitutions de séries formelles et cyclotomie. (English summary) [Substitutions of formal series and cyclotomy] **97b:11148**

Miki, Hiroo On Ihara's power series. (English summary) **97d:11128**

Motoda, Yasuo (*with* Isogawa, Satoru) On the divisibility properties of second order recurrences. II. (English summary) **97h:11009**

Movahhedi, A. *see* **Laubie, F., 97b:11148**

Verdoodt, Ann p-adic q-umbral calculus. **97b:05013**

Volovich, I. V. From p-adic strings to étale strings. (Russian) **97e:11162**

11S99 None of the above, but in this section

Items with secondary classifications in 11S99

Alberio, Sergio (*with* Khrennikov, A. Yu.) p-adic Hilbert space representation of quantum systems with an infinite number of degrees of freedom. (English summary) **97g:81072**

Christol, Gilles *see* **Robba, Philippe, 97g:12005**

Khrennikov, A. Yu. *see* **Alberio, Sergio, 97g:81072**

Kochubei, A. N. On the asymptotics of p-adic Green functions. (Russian) **97f:47061**

Li, Hua-Chieh Counting periodic points of p-adic power series. (English summary) **97c:11109**

Robba, Philippe (*with* Christol, Gilles) ★ Équations différentielles p-adiques. (French. French summary) [p-adic differential equations] **97g:12005**

11Txx Finite fields and commutative rings (number-theoretic aspects)

(Cohn, P. M.) *see* **Lidl, Rudolf, 97i:11115**

Lidl, Rudolf (*with* Niederreiter, Harald) Finite fields and their applications. **97i:11114**

— (*with* Niederreiter, Harald) ★ Finite fields. (English summary) **97i:11115**

Mullen, Gary L. (*with* Shparlinskiĭ, I. E.) Open problems and conjectures in finite fields. (English summary) **97m:11145**

Niederreiter, Harald *see* **Lidl, Rudolf, 97i:11114** *and* **97i:11115**

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Conference:

Applications of Finite Fields ★ Applications of finite fields. **97j:11001**

Finite Fields and Applications ★ Finite fields and applications. **97h:11002**

Egham ★ Applications of finite fields. **97j:11001**

Finite fields and applications ★ Finite fields and applications. **97h:11002**

Glasgow ★ Finite fields and applications. **97h:11002**

11T06 Polynomials

Acosta-de-Orozco, Maria T. (*with* Gomez-Calderon, Javier) Local minimal polynomials over finite fields. **97a:11194**

Chou, Wun-Seng The factorization of Dickson polynomials over finite fields. (English summary) **97m:11146**

Cohen, Stephen D. Dickson permutations. **97a:11195**

Cusick, Thomas W. (*with* Müller, Peter[1]) Wan's bound for value sets of polynomials. (English summary) **97m:11147**

Estes, Dennis R. (*with* Kojima, Tetsuro) Irreducible quadratic factors of $x^{(q^n+1)/2}+ax+b$ over $\mathbf{F}_q$. (English summary) **97a:11196**

Gomez-Calderon, Javier *see* **Acosta-de-Orozco, Maria T., 97a:11194**

Hefez, Abramo On the value sets of special polynomials over finite fields. **97i:11116**

Kim, Kyung Hee (*with* Lee, June Bok; Park, Young Ho) Permutation polynomials of the type $1+x+\cdots+x^k$. **97d:11182**

Kim, Seog Young (*with* Lee, June Bok) Permutation polynomials of the type $x^{1+(q-1)/m}+ax$. (English summary) **97k:11167**

Kojima, Tetsuro *see* **Estes, Dennis R., 97a:11196**

Lee, June Bok *see* **Kim, Kyung Hee; et al., 97d:11182** *and* **Kim, Seog Young, 97k:11167**

Mauduit, Véronique Carmichael-Carlitz polynomials and Fermat-Carlitz quotients. (English summary) **97m:11148**

Meyn, Helmut Factorization of the cyclotomic polynomial $x^{2^n}+1$ over finite fields. (English summary) **97e:11151**

Moree, Pieter (*with* Mullen, Gary L.) Dickson polynomial discriminators. (English summary) **97d:11183**

Mullen, Gary L. Dickson polynomials over finite fields: a survey of recent results. (English summary) **97b:11147**

— *see also* **Moree, Pieter, 97d:11183**

Müller, Peter[1] *see* **Cusick, Thomas W., 97m:11147**

Park, Young Ho *see* **Kim, Kyung Hee; et al., 97d:11182**

Redi, Ellen Normalized permutation polynomials of degree 6 over finite fields. (English and Estonian summaries) **97h:11149**

Ruppert, Wolfgang M. Reducibility of cubic polynomials mod p. (English summary) **97a:11197**

Shiue, Peter Jau-Shyong (*with* Sun, Qi; Zhang, Qi Fan) Multivariate permutation polynomials and orthogonal systems over residue class rings. (Chinese. Chinese summary) **97e:11152**

Sun, Qi *see* **Shiue, Peter Jau-Shyong; et al., 97e:11152**

Wan, Da Qing Generators and irreducible polynomials over finite fields. (English summary) **97j:11060**

Ye, Zheng Hua Permutation polynomials over $\mathbf{Z}/(m)$ and Costas arrays. (Chinese. English and Chinese summaries) **97i:11117**

Zhang, Qi Fan *see* **Shiue, Peter Jau-Shyong; et al., 97e:11152**

Zhu, Yue Fei A criterion for primitive polynomials over Galois rings. **97a:11198**

— A criterion for primitivity of polynomials over Galois rings. (Chinese. English and Chinese summaries) **97m:11149**

Items with secondary classifications in 11T06

Coulter, Robert S. (*with* Matthews, Rex W.) Planar functions and planes of Lenz-Barlotti class II. (English summary) **97j:51010**

Gurak, S. On the minimal polynomials for certain Gauss periods over finite fields. (English summary) **97m:11150**

Hsu, Chih-Nung The distribution of irreducible polynomials in $\mathbf{F}_q[t]$. (English summary) **97j:11063**

Ivchenko, G. I. (*with* Medvedev, Yu. I.) Random polynomials over a finite field. (Russian. Russian summary) **97e:60016**

Matthews, Rex W. *see* **Coulter, Robert S., 97j:51010**

Medvedev, Yu. I. *see* **Ivchenko, G. I., 97e:60016**

Morgan, Ilene H. (*with* Mullen, Gary L.) Completely normal primitive basis generators of finite fields. (English summary) **97b:11150**

Mullen, Gary L. *see* **Morgan, Ilene H., 97b:11150**

Scheerhorn, Alfred Dickson polynomials, completely normal polynomials and the cyclic module structure of specific extensions of finite fields. (English summary) **97e:11156**

11T22 Cyclotomy

Arasu, K. T. (*with* Pott, Alexander) Impossibility of a certain cyclotomic equation with applications to difference sets. (English summary) **97d:11184**

Gurak, S. On the minimal polynomials for certain Gauss periods over finite fields. (English summary) **97m:11150**

Lam, T. Y. (*with* Leung, Ka Hin) On the cyclotomic polynomial $\Phi_{pq}(X)$. **97h:11150**

Laubie, F. (*with* Movahhedi, A.) Substitutions de séries formelles et cyclotomie. (English summary) [Substitutions of formal series and cyclotomy] **97b:11148**

Leung, Ka Hin *see* **Lam, T. Y., 97h:11150**

Motose, Kaoru On values of cyclotomic polynomials. II. **97h:11151**

Movahhedi, A. *see* **Laubie, F., 97b:11148**

Pott, Alexander *see* **Arasu, K. T., 97d:11184**

11T23 Exponential sums

Cherdieu, Jean Pierre Exponential sums, codes, and Hermitian forms. (English summary) **97b:11149**

— (*with* Rolland, Robert) On hypersurfaces defined by a separated variables polynomial over a finite field. (English summary) **97g:11139**
Helleseth, Tor (*with* Kumar, P. Vijay; Shanbhag, Abhijit G.) Exponential sums over Galois rings and their applications. (English summary) **97k:11168**
— *see also* **Shanbhag, Abhijit G.; et al., 97h:11153**
Hurt, Norman E. Exponential sums and coding theory: a review. (English summary) **97m:11151**
Kumar, P. Vijay *see* **Shanbhag, Abhijit G.; et al., 97h:11153** *and* **Helleseth, Tor; et al., 97k:11168**
Lahtonen, Jyrki Examples of small hybrid sums. (English summary) **97j:11061**
Li, Wen-Ch'ing Winnie Number-theoretic constructions of Ramanujan graphs. (English summary) **97i:11118**
— A survey of Ramanujan graphs. (English summary) **97g:11140**
Mozzochi, C. J. Estimates of hybrid exponential sums on quasiprojective varieties over finite fields. (English summary) **97e:11153**
Rodier, François Minoration de certaines sommes exponentielles. II. (English and French summaries) [Lower bounds for some exponential sums. II] **97h:11152**
Rolland, Robert *see* **Cherdieu, Jean Pierre, 97g:11139**
Shanbhag, Abhijit G. (*with* Kumar, P. Vijay; Helleseth, Tor) Upper bound for a hybrid sum over Galois rings with applications to aperiodic correlation of some q-ary sequences. (English summary) **97h:11153**
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Baldassarri, Francesco Special values of symmetric hypergeometric functions. **97a:11188**
Cáceres, Alberto (*with* Moreno, Oscar) Weight distribution of duals of certain cyclic codes. (English summary) **97f:11099**
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— *see also* **von zur Gathen, Joachim, 97b:11153**
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— *see also* **Medrano, A.; et al., 97k:11172**
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11T24 Other character sums and Gauss sums

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Caragiu, Mihai On a class of finite upper half-planes. (English summary) **97k:11171**
Katz, Nicholas M. (*with* Zheng, Zhiyong) On the uniform distribution of Gauss sums and Jacobi sums. (English summary) **97e:11089**
Kim, Dae San Gauss sums for classical groups over a finite field. **97e:11090**
— (*with* Lee, In-Sok) Gauss sums for $O^+(2n, q)$. **97i:11087**
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— Generators and irreducible polynomials over finite fields. (English summary) **97j:11060**
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Ndiaye, El Hadji Oumar Étude du problème du logarithme discret dans $\mathbf{F}_{p^3}$. (English and French summaries) [A study of the discrete logarithm problem in $\mathbf{F}_{p^3}$] **97b:11151**
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Wang, Ju Ping Some notes on the properties of power residues of a finite field. (Chinese. English and Chinese summaries) **97f:11098**

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Kimball, William A. Factorials & binomial coefficients in polynomial rings over finite fields. **97d:11187**
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Porubský, Štefan *see* **Laššák, Miroslav, 97f:11086**
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11T55 Arithmetic theory of polynomial rings over finite fields

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11T71 Algebraic coding theory; cryptography

Akyildiz, Ersan (*with* Güloğlu, Ismail Ş.; İkeda, Masatoshi) A note of generalized bent functions. (English summary) **97d:11188**
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İkeda, Masatoshi *see* **Akyildiz, Ersan; et al., 97d:11188**
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Szpankowski, Wojciech On asymptotics of certain sums arising in coding theory. (English summary) **97b:11152**
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Chen, Hong Ji Generalized GMW sequence. (English summary) **97k:11025**
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— (*with* Rolland, Robert) On the number of points of some hypersurfaces in $\mathbf{F}_q^n$. (English summary) **97h:11064**
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Clarkson, I. Vaughan L. (*with* Perkins, Jane E.; Mareels, Iven M. Y.) Number/theoretic solutions to intercept time problems. (English summary) **97k:94007**
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Hanai, Mitsuru (*with* Mizuno, Hirobumi) Fermat surfaces over GF(2^2) and the related algebraic geometric codes. (Japanese. English summary) **97k:94073**
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Hurt, Norman E. Exponential sums and coding theory: a review. (English summary) **97m:11151**
Janwa, Heeralal (*with* McGuire, Gary M.; Wilson, Richard M.) Double-error-correcting cyclic codes and absolutely irreducible polynomials over GF(2). (English summary) **97a:94007**
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Kim, Yong-Tae (*with* Suh, Kwang-Suk; Kim, Chang-Han) On the efficient implementations of the elliptic curve ElGamal cryptosystem. **97k:94035**
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— *see also* **Brualdi, Richard A.; et al., 97i:94007**
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Meyer, Bernd (*with* Müller, Volker^2) A public key cryptosystem based on elliptic curves over $\mathbf{Z}/n\mathbf{Z}$ equivalent to factoring. (English summary) **97k:94037**
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(Perret, Marc) *see* **Arithmetic, geometry and coding theory, 97f:11003**
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Rodier, François Minoration de certaines sommes exponentielles. II. (English and French summaries) [Lower bounds for some exponential sums. II] **97h:11152**
— Estimation asymptotique de la distance minimale du dual des codes BCH et polynômes de Dickson. (English and French summaries) [Asymptotic estimation of the minimal distance of the duals of BCH codes and Dickson polynomials] **97e:94025**
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Runge, Bernhard Codes and Siegel modular forms. (English summary) **97h:11051**
Scheidler, R. (*with* Stein, Andreas; Williams, Hugh Cowie) Key-exchange in real quadratic congruence function fields. (English summary) **97d:94009**
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Tapia-Recillas, Horacio *see* **Renteria, C., 97e:94017**
van Tilborg, Henk C. A. Finite fields and error-correcting codes. **97k:94001**
Tsfasman, M. A. Algebraic curves and sphere packings. (English summary) **97g:11071**
Vlăduţ, Serge G. Two remarks on the spectra of algebraic geometry codes. (English summary) **97g:11064**
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van der Vlugt, Marcel Hasse-Davenport curves, Gauss sums, and weight distributions of irreducible cyclic codes. (English summary) **97e:11154**
Voss, Conny *see* **Duursma, Iwan; et al., 97h:94022**
Walker, Judy L. A new approach to the main conjecture on algebraic-geometric MDS codes. (English summary) **97m:94044**
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11T99 None of the above, but in this section

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Young, Paul Thomas Some congruences and identities for generalizations of Rédei functions. (English summary) **97j:11064**

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Angel, Jeff (*with* Evans, Ronald) Diameters of finite upper half plane graphs. (English summary) **97m:05085**
Berthé, Valérie Combinaisons linéaires de $\zeta(s)/\Pi^s$ sur $\mathbf{F}_q(x)$, pour $1 \le s \le q-2$. (English and French summaries) [Linear combinations of $\zeta(s)/\Pi^s$ over $\mathbf{F}_q(x)$, for $1 \le s \le q-2$] **97c:11075**
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Ganz, Jürg Binary representations of finite fields and their application to complexity theory. (English summary) **97f:68066**
Kuz'min, A. S. (*with* Nechaev, A. A.) Linear recurrent sequences over Galois rings. (Russian. Russian summary) **97a:13033**
Larcher, Gerhard (*with* Wolf, Reinhard Karl) Nets constructed over finite fields and the numerical integration of multivariate Walsh series. (English summary) **97g:11082**
Levit·skaya, A. A. Invariance theorems for a class of nonlinear systems of equations over an arbitrary finite field. (Russian. English and Ukrainian summaries) **97f:11086**
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Niederreiter, Harald (*with* Xing, Chaoping) Low-discrepancy sequences and global function fields with many rational places. (English summary) **97h:11080**
Shparlinskiĭ, I. E. On finding primitive roots in finite fields. (English summary) **97a:11203**
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11Uxx Connections with logic

11U05 Decidability [see also 03B25]

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Csirmaz, László Hilbert's tenth problem. (Hungarian. English and Hungarian summaries) **97f:03058**
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11U09 Model theory [see also 03Cxx]

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Point, Françoise (*with* Bruyère, Véronique) On the Cobham-Semenov theorem. (English summary) **97j:11065**

Items with secondary classifications in 11U09

Luckhardt, Horst Bounds extracted by Kreisel from ineffective proofs. (*see* **97m:01097**)

11U10 Nonstandard arithmetic [see also 03H15]

Items with secondary classifications in 11U10

Bilu, Yuri A note on universal Hilbert sets. **97i:12003**

11U99 None of the above, but in this section

Shlapentokh, Alexandra Rational separability over a global field. (English summary) **97d:11190**

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Dimitracopoulos, C. Subsystems of Peano arithmetic and classical results of number theory. (English summary) **97d:03073**
Karpenko, A. S. The class of precomplete Łukasiewicz's many-valued logics and the law of prime numbers generation. (English summary) **97d:03030**
Langevin, Michel Sur quelques conséquences de la conjecture (*abc*) en arithmétique et en logique. (English summary) [Some consequences of the (*abc*) conjecture in arithmetic and logic] **97k:11052**

11Yxx Computational number theory [see also 11–04]

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11Y05 Factorization

Boender, Henk (*with* te Riele, Herman J. J.) Factoring integers with large-prime variations of the quadratic sieve. (English summary) **97m:11155**

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Panaitopol, Laurenţiu (*with* Ştefănescu, Doru) Bounds for heights of integer polynomial factors. (English summary) **97d:11191**
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Items with secondary classifications in 11Y05

Adleman, Leonard M. Algorithmic number theory and its relationship to computational complexity. (English summary) **97e:11158**
Ekert, Artur (*with* Jozsa, Richard) Quantum computation and Shor's factoring algorithm. (English summary) **97k:81029**
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Křížek, Michal On Fermat numbers. (Czech) **97b:11005**
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11Y11 Primality

Forbes, Anthony D. A large pair of twin primes. (English summary) **97c:11111**
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Szekeres, George Higher order pseudoprimes in primality testing. (English summary) **97c:11113**

Items with secondary classifications in 11Y11

Adleman, Leonard M. Algorithmic number theory and its relationship to computational complexity. (English summary) **97e:11158**
Arnault, F. The Rabin-Monier theorem for Lucas pseudoprimes. (English summary) **97f:11009**
Nicely, Thomas R. Enumeration to 10^{14} of the twin primes and Brun's constant. (English summary) **97e:11014**
Quesada, A. R. (*with* Van Pelt, B.) A note on the extensions of Eratosthenes' sieve. (English summary) **97e:11016**
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11Y16 Algorithms; complexity [see also 68Q25]

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Balasubramanian, Ramachandran (*with* Nagaraj, S. V.) Perfect power testing. (English summary) **97i:11122**
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Cohen, Henri Hermite and Smith normal form algorithms over Dedekind domains. (English summary) **97e:11159**
Collins, George E. (*with* Encarnación, Mark J.) Efficient rational number reconstruction. (English summary) **97c:11116**
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Kaib, Michael (*with* Schnorr, Claus P.) The generalized Gauss reduction algorithm. (English summary) **97h:11157**
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Meyer, Shawna M. (*with* Sorenson, Jonathan P.) Efficient algorithms for computing the Jacobi symbol (extended abstract). (English summary) **97m:11157**
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Semaev, I. A. On the computation of logarithms on elliptic curves. (Russian. Russian summary) **97d:11193**
Sherstnev, V. I. How often is addition equal to bitwise addition? (English summary) **97d:11194**
Shparlinskiĭ, I. E. On finding primitive roots in finite fields. (English summary) **97a:11203**
— *see also* **von zur Gathen, Joachim**, **97b:11153**
Sorenson, Jonathan P. *see* **Dunten, Brian; et al.**, **97g:11141** *and* **Meyer, Shawna M.**, **97m:11157**
Tjugen, Karsten Prime number solitaire, an algorithm for determining composite numbers and primes. (Norwegian. English and Norwegian summaries) **97m:11158**
Villard, Gilles Generalized subresultants for computing the Smith normal form of polynomial matrices. (English summary) **97a:11204**

Items with secondary classifications in 11Y16

Adleman, Leonard M. (*with* Huang, Ming-Deh A.; Kompella, Kireeti) Efficient checkers for number-theoretic computations. (English summary) **97h:68078**
Cesari, Giovanni (*with* Maeder, Roman) Performance analysis of the parallel Karatsuba multiplication algorithm for distributed memory architectures. (English summary) (*see* **97e:68003**)
Ganz, Jürg Binary representations of finite fields and their application to complexity theory. (English summary) **97f:68066**
Huang, Ming-Deh A. *see* **Adleman, Leonard M.; et al.**, **97h:68078**
Jebelean, Tudor *see* **Krandick, Werner**, **97g:65295**
Kompella, Kireeti *see* **Adleman, Leonard M.; et al.**, **97h:68078**
Kornerup, Peter (*with* Matula, David W.) LCF: a lexicographic binary representation of the rationals. (English summary) **97e:68005**
Krandick, Werner (*with* Jebelean, Tudor) Bidirectional exact integer division. (English summary) **97g:65295**
Kudin, A. M. Prime number search algorithms for public key systems. (Russian. English and Ukrainian summaries) **97d:68046**
Maeder, Roman *see* **Cesari, Giovanni**, (**97e:68003**)
Matula, David W. *see* **Kornerup, Peter**, **97e:68005**
Ndiaye, El Hadji Oumar Étude du problème du logarithme discret dans $\mathbf{F}_{p^3}$. (English and French summaries) [A study of the discrete logarithm problem in $\mathbf{F}_{p^3}$] **97b:11151**
Paule, Peter Greatest factorial factorization and symbolic summation. (English summary) **97f:68083**
Pomerance, Carl The role of smooth numbers in number-theoretic algorithms. **97m:11156**
Rabin, Michael O. Computationally hard algebraic problems (extended abstract). (English summary) (*see* **97k:68012**)
Rabinowitz, Stanley Algorithmic manipulation of third-order linear recurrences. **97g:11009**
Sekigawa, Hiroshi Determining the signs of algebraic numbers derived from approximate computations. (Japanese) (*see* **97c:00054**)
Silverman, Joseph H. Computing canonical heights with little (or no) factorization. (English summary) **97f:11040**
Srinivasan, Aravind Improving the discrepancy bound for sparse matrices: better approximations for sparse lattice approximation problems. (English summary) (*see* **97k:68011**)

11Y35 Analytic computations

Items with secondary classifications in 11Y35

Bach, Eric (*with* Sorenson, Jonathan P.) Explicit bounds for primes in residue classes. (English summary) **97a:11143**
Chakraborty, Kalyan (*with* Lal, A. K.; Ramakrishnan, B.) Modular forms which behave like theta series. (English summary) **97i:11042**
Crandall, Richard E. (*with* Dilcher, Karl; Pomerance, Carl) A search for Wieferich and Wilson primes. (English summary) **97c:11004**
Dilcher, Karl *see* **Crandall, Richard E.; et al.**, **97c:11004**
Guiasu, Silviu On Gauss' conjecture on the distribution of primes. (English summary) **97h:11095**
Lal, A. K. *see* **Chakraborty, Kalyan; et al.**, **97i:11042**
Pomerance, Carl *see* **Crandall, Richard E.; et al.**, **97c:11004**
Ramakrishnan, B. *see* **Chakraborty, Kalyan; et al.**, **97i:11042**
Ramaré, Olivier (*with* Rumely, Robert) Primes in arithmetic progressions. (English summary) **97a:11144**
Rumely, Robert *see* **Ramaré, Olivier**, **97a:11144**
Smith, H. V. The numerical approximation of the Riemann zeta function. (English summary) **97a:11136**
Sorenson, Jonathan P. *see* **Bach, Eric**, **97a:11143**
Yoshida, Hiroyuki On calculations of zeros of various L-functions. **97a:11076**

11Y40 Algebraic number theory computations

Acciaro, Vincenzo Solvability of norm equations over cyclic number fields of prime degree. (English summary) **97a:11205**
Belabas, K. A fast algorithm to compute cubic fields. (English summary) **97m:11159**
Chang, Hong Bin Conjectures about and machine computations of the coefficients of cyclotomic polynomials over **Q**. (Chinese. Chinese summary)
Encarnación, Mark J. Computing GCDs of polynomials over algebraic number fields. (English summary) **97c:11117**
Fieker, C. (*with* Jurk, A.; Pohst, Michael) On solving relative norm equations in algebraic number fields. (English summary) **97c:11118**
Ford, David Minimum discriminants of primitive sextic fields. (English summary) **97k:11175**
Jurk, A. *see* **Fieker, C.; et al.**, **97c:11118**

Naplas, Huguette A generalization of the LLL-algorithm over Euclidean rings or orders. (English and French summaries) **97m:11160**
Niklasch, Gerhard The number field database on the World Wide Web server http://hasse.mathematik.tu-muenchen.de/. (English summary) **97k:11176**
Pohst, Michael *see* **Fieker, C.; et al., 97c:11118**

Items with secondary classifications in 11Y40

Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang Cheng) Ramanujan's class invariants, Kronecker's limit formula, and modular equations. **97i:11039**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 97i:11039**
Clark, David A. Non-Galois cubic fields which are Euclidean but not norm-Euclidean. (English summary) **97a:11169**
Cougnard, J. Base normale dans un corps de classes de Hilbert. [Normal basis in a Hilbert class field] **97e:11143**
Dummit, David S. (*with* Sands, Jonathan W.; Tangedal, Brett A.) Computing Stark units for totally real cubic fields. (English summary) **97i:11110**
Gaál, István (*with* Pethő, Attila; Pohst, Michael) On the resolution of index form equations in biquadratic number fields. III. The bicyclic biquadratic case. (English summary) **97a:11052**
— Computing elements of given index in totally complex cyclic sextic fields. (English summary) **97a:11173**
— (*with* Pohst, Michael) On the resolution of index form equations in sextic fields with an imaginary quadratic subfield. (English summary) **97m:11161**
Hasegawa, Yuji On some examples of modular QM-abelian surfaces. **97b:11062**
Helou, Charles On Wendt's determinant. (English summary) **97j:11014**
Ichimura, Humio A note on the Iwasawa λ-invariants of real quadratic fields. **97b:11128**
Jacobson, Michael J., Jr. (*with* Lukes, Richard F.; Williams, Hugh Cowie) An investigation of bounds for the regulator of quadratic fields. (English summary) **97d:11173**
Jeannin, Stéphane Nombre de classes et unités des corps de nombres cycliques quintiques d'E. Lehmer. (English and French summaries) [Class number and units of E. Lehmer's quintic cyclic number fields] **97k:11154**
Ji, Guangheng (*with* Lu, Hong Wen) Class number and computer—a note on an S. Chowla's conjecture. (English summary) **97k:11155**
Lenstra, Hendrik W., Jr. Computing Jacobi symbols in algebraic number fields. (English summary) **97a:11183**
Louboutin, Stéphane Calcul du nombre de classes des corps de nombres. (French summary) [Computing the class number of number fields] **97a:11176**
— The CM-fields with class number one which are Hilbert class fields of quadratic fields. **97b:11131**
— Computation of relative class numbers of CM-fields. (English summary) **97k:11157**
— (*with* Okazaki, Ryotaro; Olivier, Michel) The class number one problem for some non-abelian normal CM-fields. (English summary) **97k:11149**
Lu, Hong Wen *see* **Ji, Guangheng, 97k:11155**
Lukes, Richard F. *see* **Jacobson, Michael J., Jr.; et al., 97d:11173**
Okazaki, Ryotaro *see* **Louboutin, Stéphane; et al., 97k:11149**
Olivier, Michel *see* **Louboutin, Stéphane; et al., 97k:11149**
Pethő, Attila *see* **Gaál, István; et al., 97a:11052**
Pohst, Michael *see* **Gaál, István; et al., 97a:11052** *and* **97m:11161**
Sands, Jonathan W. *see* **Dummit, David S.; et al., 97i:11110**
Tangedal, Brett A. *see* **Dummit, David S.; et al., 97i:11110**
Williams, Hugh Cowie *see* **Jacobson, Michael J., Jr.; et al., 97d:11173**
Zhang, Liang Cheng Ramanujan's class invariants, Kronecker's limit formula and modular equations. II. **97i:11040**
— *see also* **Berndt, Bruce C.; et al., 97i:11039**

11Y50 Computer solution of Diophantine equations

Filgueiras, Miguel (*with* Tomás, Ana Paula) A fast method for finding the basis of non-negative solutions to a linear Diophantine equation. (English summary) **97a:11206**
Gaál, István (*with* Pohst, Michael) On the resolution of index form equations in sextic fields with an imaginary quadratic subfield. (English summary) **97m:11161**
Pohst, Michael *see* **Gaál, István, 97m:11161**
Tomás, Ana Paula *see* **Filgueiras, Miguel, 97a:11206**

Items with secondary classifications in 11Y50

Bennett, Michael A. Solving norm form equations via lattice basis reduction. (English summary) **97k:11042**
Burger, Edward B. Small solutions to systems of linear congruences over number fields. **97m:11049**
Cassels, J. W. S. (*with* Flynn, E. V.) ★ Prolegomena to a middlebrow arithmetic of curves of genus 2. (English summary) **97i:11071**
Ekl, Randy L. Equal sums of four seventh powers. (English summary) **97a:11050**
Flynn, E. V. *see* **Cassels, J. W. S., 97i:11071**
Gebel, Josef (*with* Pethő, Attila; Zimmer, Horst G.) Computing S-integral points on elliptic curves. **97m:11072**
Koyama, Kenji (*with* Tsuruoka, Yukio; Sekigawa, Hiroshi) On searching for solutions of the Diophantine equation $x^3+y^3+z^3=n$. (English summary) **97m:11041**
Mignotte, Maurice (*with* de Weger, Benjamin M. M.) On the Diophantine equations $x^2+74=y^5$ and $x^2+86=y^5$. (English summary) **97b:11044**
Morain, François Calcul du nombre de points sur une courbe elliptique dans un corps fini: aspects algorithmiques. (English and French summaries) [Computing the number of points on an elliptic curve over a finite field: algorithmic aspects] **97i:11069**
Nitaj, Abderrahmane L'algorithme de Cornacchia. (English summary) [Cornacchia's algorithm] **97a:11044**
— La conjecture *abc*. [The *abc* conjecture] **97a:11051**
Pethő, Attila *see* **Gebel, Josef; et al., 97m:11072**
Ramírez-Alfonsín, J. L. Complexity of the Frobenius problem. (English summary) **97d:11058**
Schoof, René Counting points on elliptic curves over finite fields. (English summary) **97i:11070**
Sekigawa, Hiroshi *see* **Koyama, Kenji; et al., 97m:11041**
Smart, N. P. Solving discriminant form equations via unit equations. (English summary) **97g:11029**
Tsuruoka, Yukio *see* **Koyama, Kenji; et al., 97m:11041**
de Weger, Benjamin M. M. *see* **Mignotte, Maurice, 97b:11044**
Zimmer, Horst G. *see* **Gebel, Josef; et al., 97m:11072**

11Y55 Calculation of integer sequences

Rokach, Arie Optimal computation, by computer, of Fibonacci numbers. **97h:11158**

Items with secondary classifications in 11Y55

Cohen, Graeme L. (*with* te Riele, Herman J. J.) Iterating the sum-of-divisors function. (English summary) **97m:11007**
Gassko, Irene Stapling and composite coverings of natural numbers. (English summary) **97i:11015**
— Stapled sequences and stapling coverings of natural numbers. (English summary) **97i:11018**
te Riele, Herman J. J. *see* **Cohen, Graeme L., 97m:11007**

11Y60 Evaluation of constants

Amdeberhan, Tewodros Faster and faster convergent series for $\zeta(3)$. (English summary) **97b:11154**
Bailey, David H. (*with* Borwein, Jonathan M.; Crandall, Richard E.) On the Khintchine constant. (English summary) **97c:11119**
Borwein, Jonathan M. *see* **Bailey, David H.; et al., 97c:11119**
Crandall, Richard E. *see* **Bailey, David H.; et al., 97c:11119**
Dąbrowski, Andrzej Bogdan A note on values of the Riemann zeta function at positive odd integers. (English summary) **97g:11142**
Montini, E. Closed evaluation of Riemann's nondifferentiable function. (English summary) **97e:11161**
Wu, Kang *see* **Yang, Bi Cheng, 97m:11163**
Xiong, Guijing On a kind of the best estimates for the Euler constant γ. (English summary) **97m:11162**
Yang, Bi Cheng (*with* Wu, Kang) An inequality for the Stieltjes constants. (Chinese. English and Chinese summaries) **97m:11163**

Items with secondary classifications in 11Y60

Akiyama, Shigeki A criterion to estimate the least common multiple of sequences and asymptotic formulas for $\zeta(3)$ arising from recurrence relation of an elliptic function. **97f:11021**
Borwein, Jonathan M. (*with* Girgensohn, Roland) Evaluation of triple Euler sums. (English summary) **97d:11137**
Choi, Junesang (*with* Srivastava, Hari M.) Sums associated with the zeta function. (English summary) **97i:11092**
Choudhury, Bejoy K. The Riemann zeta-function and its derivatives. (English summary) **97e:11095**
Cvijović, Djurdje (*with* Klinowski, Jacek) New rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **97g:11090**
Ewell, John A. On the zeta function values $\zeta(2k+1)$, $k=1,2,\cdots$. (English summary) **97i:11093**
Georgescu, C. *see* **Iordache, Doina, 97i:51036**
Girgensohn, Roland *see* **Borwein, Jonathan M., 97d:11137**
Iordache, Doina (*with* Georgescu, C.) Méthode géométrique de détermination du nombre π. (English, French and Romanian summaries) [Geometric method for determining π] **97i:51036**
Klinowski, Jacek *see* **Cvijović, Djurdje, 97g:11090**
Srivastava, Hari M. *see* **Choi, Junesang, 97i:11092**

11Y65 Continued fraction calculations

Items with secondary classifications in 11Y65

Adam, Brigitte (*with* Rhin, Georges) Algorithmes des fractions continues et de Jacobi-Perron. (English summary) [Continued fraction and Jacobi-Perron algorithms] **97b:11093**
Bailey, David H. (*with* Borwein, Jonathan M.; Crandall, Richard E.) On the Khintchine constant. (English summary) **97c:11119**
Borwein, Jonathan M. *see* **Bailey, David H.; et al., 97c:11119**
Crandall, Richard E. *see* **Bailey, David H.; et al., 97c:11119**
Rhin, Georges *see* **Adam, Brigitte, 97b:11093**

11Y70 Values of arithmetic functions; tables

Atanassov, Krassimir Todorov (*with* Mihov, S.; Peretti, Aldo; Shannon, Anthony) Computer calculus related to some problems in number theory. III.
— (*with* Mihov, S.; Peretti, Aldo) Computer calculus related to some problems in number theory. IV.
Mihov, S. *see* **Atanassov, Krassimir Todorov; et al.**
Peretti, Aldo *see* **Atanassov, Krassimir Todorov; et al.**
Sato, Ken-ichi[1] Computational contributions on Franel's sum relevant to Farey sequences. **97c:11120**
Shannon, Anthony *see* **Atanassov, Krassimir Todorov; et al.**

Items with secondary classifications in 11Y70

Bach, Eric (*with* Lukes, Richard F.; Shallit, Jeffrey; Williams, Hugh Cowie) Results and estimates on pseudopowers. (English summary) **97a:11161**
Bérczes, A. (*with* Hajdu, L.) Computational experiences on the distances of polynomials to irreducible polynomials. (English summary) **97c:11035**

Blecksmith, Richard (*with* Laud, Purushottam W.) Some exact number theory computations via probability mechanisms. **97d:11012**
Cohen, Graeme L. Numbers whose positive divisors have small integral harmonic mean. (English summary) **97f:11007**
Eranvall, R. (*with* Metsänkylä, T.) On the p-divisibility of Fermat quotients. (English summary) **97i:11003**
Hajdu, L. *see* **Bérczes, A., 97c:11035**
Ibstedt, Henry Base solution (the Smarandache function).
Laud, Purushottam W. *see* **Blecksmith, Richard, 97d:11012**
Lukes, Richard F. *see* **Bach, Eric; et al., 97a:11161**
Metsänkylä, T. *see* **Eranvall, R., 97i:11003**
Shallit, Jeffrey *see* **Bach, Eric; et al., 97a:11161**
Williams, Hugh Cowie *see* **Bach, Eric; et al., 97a:11161**
Yan, S. Y. Errata to: "68 new large amicable pairs" [Comput. Math. Appl. **28** (1994), no. 5, 71–74; MR 96a:11008]. (English summary) **97h:11005**

11Y99 None of the above, but in this section

(Pospelov, D. A.) *see* **Zenkin, A. A., 97m:11164**
Stanimirović, Predrag Computation of determinants and inverses of rectangular or singular matrices using residue arithmetic. (English summary) **97k:11177**
Zenkin, A. A. ★ Когнитивная компьютерная графика. (Russian. Russian summary) [Cognitive computer graphics] **97m:11164**

Items with secondary classifications in 11Y99

Darbo, G. (*with* Zannier, Umberto) "Good" numbers. (Italian. English and Italian summaries) **97k:11012**
Grossman, Nathaniel Convergent expansions for two common trigonometric sums. (English summary) **97k:42008**
Chen, Nan Xian (*with* Chen, Zhao Dou; Shen, Ya Nan) Rings of Gauss and Eisenstein's integers and their physical applications. (English summary) **97d:11195**
Chen, Zhao Dou *see* **Chen, Nan Xian; et al., 97d:11195**
Julia, B. L. Théories statistique et thermodynamique des nombres. (English) [Statistical and thermodynamical number theory] **97d:11196**
Shen, Ya Nan *see* **Chen, Nan Xian; et al., 97d:11195**
Volovich, I. V. From p-adic strings to étale strings. (Russian) **97e:11162**
Zannier, Umberto *see* **Darbo, G., 97k:11012**

Items with secondary classifications in 11Y99

Albeverio, Sergio (*with* Khrennikov, A. Yu.) p-adic Hilbert space representation of quantum systems with an infinite number of degrees of freedom. (English summary) **97g:81072**
Bogomol'nyĭ, E. B. (*with* Keating, Jonathan Peter) Random matrix theory and the Riemann zeros. I. Three- and four-point correlations. (English summary) **97d:11132a**
— (*with* Keating, Jonathan Peter) Random matrix theory and the Riemann zeros. II. n-point correlations. (English summary) **97d:11132b**
Borsari, I. (*with* Graffi, Sandro; Unguendoli, F.) Ground states for a class of deterministic spin models with glassy behaviour. (English summary) **97d:82023**
Cardoso, Gabriel Lopes (*with* Curio, Gottfried; Lüst, Dieter; Mohaupt, Thomas) Modular forms and instanton numbers in $N = 2$ dual string pairs. (English summary) **97j:81246**
Chen, Nan Xian *see* **Deng, Wenji; et al., 97j:82151**
Córdoba, Antonio (*with* Fefferman, Charles L.; Seco, Luis A.) A number-theoretic estimate for the Thomas-Fermi density. (English summary) **97f:81181**
Curio, Gottfried *see* **Cardoso, Gabriel Lopes; et al., 97j:81246**
Deng, Wenji (*with* Chen, Nan Xian; Liu, Youyan; Gong, Chang-De) Modified Carlsson-Gelatt-Ehrenreich scheme for the inverse problem of cohesive energy. (English summary) **97j:82151**
Donagi, Ron (*with* Grassi, Antonella; Witten, Edward) A nonperturbative superpotential with E_8-symmetry. (English summary) **97g:81052**
Dragović, B. G. On p-adic series in mathematical physics. (English summary) **97a:11193**
Elizalde, Emilio Extension of the Chowla-Selberg formula and applications. (English summary) **97e:11107**
El Naschie, M. S. On numbers, probability and dimensions. (English summary) **97d:11122**
Fefferman, Charles L. *see* **Córdoba, Antonio; et al., 97f:81181**
Fradkin, Eduardo (*with* Kivelson, Steven) Modular invariance, self-duality and the phase transition between quantum Hall plateaus. (English summary) **97i:81168**
Frampton, P. H. Retrospective on p-adic string theory. **97f:81121**
Gannon, Terry The classification of SU(3) modular invariants revisited. (English and French summaries) **97e:81137**
Gómez, César (*with* López, Esperanza) From quantum monodromy to duality. (English summary) **97j:81348**
Gong, Chang-De *see* **Deng, Wenji; et al., 97j:82151**
Graffi, Sandro *see* **Borsari, I.; et al., 97d:82023**
Grassi, Antonella *see* **Donagi, Ron; et al., 97g:81052**
Greenman, C. D. The generic spacing distribution of the two-dimensional harmonic oscillator. (English summary) **97h:81051**
Jiang, Tao Epstein zeta function and heavy-quark potential at finite temperature from Nambu-Goto string. (English summary) **97k:81120**
Kashaev, R. M. An invariant of triangulated links from a quantum dilogarithm. (Russian. English and Russian summaries) **97d:57006**
Keating, Jonathan Peter *see* **Bogomol'nyĭ, E. B., 97d:11132a** *and* **97d:11132b**
Kedem, Rinat (*with* McCoy, Barry M.; Melzer, Ezer) The sums of Rogers, Schur and Ramanujan and the Bose-Fermi correspondence in $(1 + 1)$-dimensional quantum field theory. (English summary) **97j:11049**
Khrennikov, A. Yu. *see* **Albeverio, Sergio, 97g:81072**
Kivelson, Steven *see* **Fradkin, Eduardo, 97i:81168**
Kochubei, A. N. p-adic commutation relations. (English summary) **97j:81169**
Liu, Youyan *see* **Deng, Wenji; et al., 97j:82151**
López, Esperanza *see* **Gómez, César, 97j:81348**
Lüst, Dieter *see* **Cardoso, Gabriel Lopes; et al., 97j:81246**
McCoy, Barry M. *see* **Kedem, Rinat; et al., 97j:11049**
Melzer, Ezer Massive-conformal dictionary. (English summary) **97a:81207**
— *see also* **Kedem, Rinat; et al., 97j:11049**
Mohaupt, Thomas *see* **Cardoso, Gabriel Lopes; et al., 97j:81246**
Montague, Paul Stewart On the uniqueness of the twisted representation in the Z_2 orbifold construction of a conformal field theory from a lattice. (English summary) **97b:81117**
Nahm, Werner Conformal field theory, dilogarithms, and three-dimensional manifolds. **97b:81118**
Pigli, Mircea Adelic integrable systems. (English summary) **97b:11072**
Saçhoğlu, Cihan Generalization of Weierstrassian elliptic functions to $\mathbf{R}^n$. (English summary) **97c:33018**
Sandoval, Leonidas, Jr. Eichler integrals and string theory. (English summary) **97d:11069**
Sapuzhak, T. M. *see* **Vladimirov, V. S., 97g:11129**
Seco, Luis A. *see* **Córdoba, Antonio; et al., 97f:81181**
Shall, R. Some logarithmic lattice sums. (English summary) **97a:11129**
Unguendoli, F. *see* **Borsari, I.; et al., 97d:82023**
Vladimirov, V. S. Adelic formulas for gamma and beta functions of completions of algebraic number fields and their applications to string amplitudes. (Russian. Russian summary) **97e:11145**
— (*with* Sapuzhak, T. M.) Adèlic formulas for string amplitudes in fields of algebraic numbers. (English summary) **97g:11129**
Witten, Edward Electric-magnetic duality in four-dimensional gauge theories. (English summary) **97d:81133**
— *see also* **Donagi, Ron; et al., 97g:81052**

12–XX Field theory and polynomials

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

Morandi, Patrick ★ Field and Galois theory. (English summary) **97f:12001**
Shurman, Jerry ★ Geometry of the quintic. (English summary) **97f:12002**

12–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 12–02

Borwein, Peter (*with* Erdélyi, Tamás) ★ Polynomials and polynomial inequalities. **97e:41001**
Erdélyi, Tamás *see* **Borwein, Peter**, **97e:41001**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

Birkeland, Bent Ludvig Sylow's lectures on algebraic equations and substitutions, Christiana (Oslo), 1862: an introduction and a summary. (English, French and German summaries) **97h:01011**
(Cardano, G.) *see* **Romo Santos, Concepción**, **97k:01006**
Romo Santos, Concepción Cardano's *Ars magna* and the solutions of cubic and quartic equations. (Spanish) **97k:01006**
(Sylow, Ludwig) *see* **Birkeland, Bent**, **97h:01011**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 12–04

Mattman, Thomas (*with* McKay, John) Computation of Galois groups over function fields. (English summary) **97g:12003**
McKay, John *see* **Mattman, Thomas**, **97g:12003**

12Dxx Real and complex fields

12D05 Polynomials: factorization

Cygan, Ewa Factorization of polynomials. (English summary) **97f:12001**
Lazov, Petar R. A criterion for polynomial decomposition. (English and Macedonian summaries) **97f:12002**
Ollerton, R. L. *see* **Shannon, Anthony; et al.**, **97e:12001**
Panaitopol, Laurenţiu (*with* Ştefănescu, Doru) Some polynomial factorizations over the integers. (English summary)
Shannon, Anthony (*with* Tang, Irving C.; Ollerton, R. L.) A use of generalized Fibonacci numbers in finding quadratic factors. **97e:12001**
Ştefănescu, Doru Polynomials, constructivity and randomness. (English summary) **97h:12001**
— *see also* **Panaitopol, Laurenţiu**
Tang, Irving C. *see* **Shannon, Anthony; et al.**, **97e:12001**

Items with secondary classifications in 12D05

Barbeau, E. J. ★ Polynomials. **97e:00002**
Jouanolou, Jean-Pierre Résultant anisotrope, compléments et applications. [Anisotropic resultant, complements and applications] **97e:14004**
Schinzel, Andrzej Solved and unsolved problems on polynomials. **97a:12001**

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Garloff, Jürgen (*with* Wagner, David G.) Preservation of total nonnegativity under the Hadamard product and related topics. (English summary) **97h:12002**
Horwitz, Alan L. On the ratio vectors of polynomials. **97j:12001**
Huang, Jia Zhou The numbers of roots of quasipolynomials. (Chinese. English and Chinese summaries) **97e:12002**
Li, Chun Guang An application of the theory of nonnegative matrices to the discussion of the distribution of the roots of a class of algebraic equations. (Chinese. English and Chinese summaries)
Pietrus, Alain Polynômes hyperboliques et combinaisons linéaires de certains polynômes hyperboliques. (English and French summaries) [Hyperbolic polynomials and linear combinations of some hyperbolic polynomials]
Saito, Tomokatsu An extension of Sturm's theorem to two dimensions.
Wagner, David G. *see* **Garloff, Jürgen**, **97h:12002**

Items with secondary classifications in 12D10

Amoroso, Francesco Polynomials with prescribed vanishing at roots of unity. (Italian summary) **97a:11120**
Dedieu, J. P. (*with* Gourdon, Xavier; Yakoubsohn, J. C.) Computing the distance from a point to an algebraic hypersurface. (English summary) **97m:65097**
Filaseta, Michael (*with* Konyagin, Sergei V.) Squarefree values of polynomials all of whose coefficients are 0 and 1. **97a:11039**
Gourdon, Xavier *see* **Dedieu, J. P.; et al.**, **97m:65097**
Gregor, Jiří (*with* Tišer, Jaroslav) On convex combinations of Hurwitz polynomials. (English summary) **97a:93040**
Itenberg, I. V. (*with* Roy, Marie Françoise) Multivariate Descartes' rule. **97h:14071**
Konyagin, Sergei V. *see* **Filaseta, Michael**, **97a:11039**
Manocha, Dinesh Solving polynomial systems using matrix computations. (English summary) **97e:65052**
Roy, Marie Françoise *see* **Itenberg, I. V.**, **97h:14071**
Spector, Donald Supersymmetry, vacuum statistics, and the fundamental theorem of algebra. (English summary) **97e:81038**
Takeuchi, Mamoru A zero estimate for exponential polynomials. **97f:11057**
Tišer, Jaroslav *see* **Gregor, Jiří**, **97a:93040**
Yakoubsohn, J. C. *see* **Dedieu, J. P.; et al.**, **97m:65097**

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

Becker, Eberhard (*with* Powers, Victoria) Sums of powers in rings and the real holomorphy ring. **97h:12003**
Liang, Song Xin (*with* Zeng, Guang Xing) The real Nullstellensatz in infinite-dimensional spaces. (Chinese. English and Chinese summaries) **97h:12004**
de Loera, Jesús A. (*with* Santos, Francisco) An effective version of Pólya's theorem on positive definite forms. (English summary) **97b:12001**
Perović, Žikica Isomorphisms of real closed fields. (English summary) **97h:12005**
Powers, Victoria *see* **Becker, Eberhard**, **97h:12003**
Santos, Francisco *see* **de Loera, Jesús A.**, **97b:12001**
Zeng, Guang Xing *see* **Liang, Song Xin**, **97h:12004**

Items with secondary classifications in 12D15

Blass, Andreas R. (*with* Pambuccian, Victor) On a problem of H. N. Gupta. (English summary) **97f:51032**
Delzell, Charles N. Kreisel's unwinding of Artin's proof. (*see* **97m:01097**)
Dickmann, M. A. Le continu au premier ordre. [The first-order theory of the continuum] **97h:14075**
Fitzgerald, Robert W. Projective modules over Witt rings. **97e:13016**
Lickteig, Thomas (*with* Werther, Kai) How can a complex square root be computed in an optimal way? (English summary) **97f:68062**
Lombardi, Henri (*with* Mnëv, N. E.; Roy, Marie Françoise) The Positivstellensatz and small deduction rules for systems of inequalities. **97h:14077**
Mnëv, N. E. *see* **Lombardi, Henri; et al.**, **97h:14077**
Nowak, Krzysztof Jan On a universal axiomatization of the real closed fields. (English summary) **97j:03064**
Pambuccian, Victor *see* **Blass, Andreas R.**, **97f:51032**
Pfister, Albrecht ★ Quadratic forms with applications to algebraic geometry and topology. **97c:11046**
Powers, Victoria Hilbert's 17th problem and the champagne problem. (English summary) **97m:12008**
Roy, Marie Françoise *see* **Lombardi, Henri; et al.**, **97h:14077**
Scheiderer, Claus Hasse principles and approximation theorems for homogeneous spaces over fields of virtual cohomological dimension one. (English summary) **97f:14019**
Sinaceur, Hourya La construction algébrique du continu: calcul, ordre, continuité. [The algebraic construction of the continuum: calculation, order, continuity] **97g:00012**
Stengle, Gilbert Complexity estimates for the Schmüdgen Positivstellensatz. (English summary) **97d:14080**
Werther, Kai *see* **Lickteig, Thomas**, **97f:68062**

12D99 None of the above, but in this section

Spodzieja, Stanisław The field of Nash functions and factorization of polynomials. (English summary) **97h:12006**

Items with secondary classifications in 12D99

Zeng, Guang Xing Strongly real Hilbert rings and the real Jacobson semisimplicity. (English summary) **97g:13037**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Andersen, Kurt Munk A characterization of polynomials. **97d:12001**
Eggar, M. H. On the discriminant criterion and a generalization.
Fein, Burton (*with* Schacher, Murray) Properties of iterates and composites of polynomials. **97h:12007**
Möller, Peter[1] Reducibility behavior of polynomials with varying coefficients. (English summary) **97j:12002**
Panaitopol, Laurenţiu (*with* Ştefănescu, Doru) About a polynomial index and its applications. **97d:12002**
Schacher, Murray *see* **Fein, Burton**, **97h:12007**
Schinzel, Andrzej Solved and unsolved problems on polynomials. **97a:12001**
Ştefănescu, Doru *see* **Panaitopol, Laurenţiu**, **97d:12002**

Items with secondary classifications in 12E05

Barbeau, E. J. ★ Polynomials. **97e:00002**
Berenstein, Carlos A. (*with* Yger, Alain) Residues and effective Nullstellensatz. (English summary) **97f:14036**
Filimonenkov, V. O. On the arithmetic of the coefficients of rational functions with linear-fractional changes of the argument. (Russian) **97a:12002**
Müller, Peter[1] (*with* Völklein, Helmut) On a question of Davenport. (English summary) **97h:12012**
Narkiewicz, Władysław ★ Polynomial mappings. **97e:11037**
Pezda, T. Cycles of polynomials in algebraically closed fields of positive chracteristic. II. **97g:11026**

Völklein, Helmut *see* **Müller, Peter[1], 97h:12012**
Yger, Alain *see* **Berenstein, Carlos A., 97i:14036**
Zannier, Umberto Note on dense universal Hilbert sets. (English and French summaries) **97c:12001**

12E10 Special polynomials

Guo, Jing Ming *see* **Shao, Jia Yu, 97k:12001**
Shao, Jia Yu (*with* Guo, Jing Ming) Polynomials with commuting graph properties over finite fields. (Chinese. English and Chinese summaries) **97k:12001**
Spearman, Blair K. (*with* Williams, Kenneth S.) On solvable quintics $X^5 + aX + b$ and $X^5 + aX^2 + b$. (English summary) **97e:12003**
Williams, Kenneth S. *see* **Spearman, Blair K., 97e:12003**
Zhang, Qi Fan Permutation polynomials in several indeterminates over $\mathbf{Z}/m\mathbf{Z}$. (English summary) **97g:12001**

Items with secondary classifications in 12E10

Jarden, Moshe (*with* Razon, Aharon) Skolem density problems over algebraic P$\mathscr{S}$C fields over rings. **97b:12004**
Mollin, Richard A. ★ Quadratics. **97e:11135**
Movahhedi, A. Galois group of $X^p + aX + a$. **97b:12005**
Razon, Aharon *see* **Jarden, Moshe, 97b:12004**
Redi, Ellen Normalized permutation polynomials of degree 6 over finite fields. (English and Estonian summaries) **97h:11149**
Schinzel, Andrzej Solved and unsolved problems on polynomials. **97a:12001**

12E12 Equations

King, R. Bruce ★ Beyond the quartic equation. (English summary) **97g:12002**

Items with secondary classifications in 12E12

Swallow, John R. Solutions to central embedding problems are constructible. (English summary) **97e:12007**
Todorov, Pavel G. New analytic solution of the trinomial algebraic equation $z^n + pz + q = 0$ by means of the Goursat hypergeometric function. II. (English summary) **97e:30013**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45, 16Kxx]

Cohn, P. M. ★ Skew fields. (English summary) **97d:12003**
Liedahl, Steven Maximal subfields of $\mathbf{Q}(i)$-division rings. (English summary) **97h:12008**

Items with secondary classifications in 12E15

Brungs, Hans-Heinrich (*with* Schröder, Martin) Prime segments of skew fields. (English summary) **97c:16021**
Brussel, Eric S. Decomposability and embeddability of discretely Henselian division algebras. (English summary) **97m:16030**
— Division algebra subfields introduced by an indeterminate. **97k:16019**
Chiba, Katsuo Free subgroups and free subsemigroups of division rings. **97g:16030**
(Cohn, P. M.) *see* **Platonov, V. P., (97a:00047)**
Figueiredo, L. M. V. (*with* Gonçalves, Jairo Z.; Shirvani, M.) Free group algebras in certain division rings. (English summary) **97j:16030**
van Geel, J. The excellence property for generic splitting fields. **97a:11057**
Gonçalves, Jairo Z. *see* **Figueiredo, L. M. V.; et al., 97j:16030**
Liedahl, Steven K-admissibility of wreath products of cyclic p-groups. (English summary) **97j:11059**
Platonov, V. P. (*with* Yanchevskiĭ, V. I.) Finite-dimensional division algebras [MR 93h:16026]. (*see* **97a:00047**)
Schröder, Martin *see* **Brungs, Hans-Heinrich, 97c:16021**
Shirvani, M. *see* **Figueiredo, L. M. V.; et al., 97j:16030**
Yanchevskiĭ, V. I. *see* **Platonov, V. P., (97a:00047)**

12E20 Finite fields (field-theoretic aspects)

Items with secondary classifications in 12E20

Guo, Jing Ming *see* **Shao, Jia Yu, 97k:12001**
Shao, Jia Yu (*with* Guo, Jing Ming) Polynomials with commuting graph properties over finite fields. (Chinese. English and Chinese summaries) **97k:12001**

12E25 Hilbertian fields; Hilbert's irreducibility theorem

Bilu, Yuri A note on universal Hilbert sets. **97i:12003**
Zannier, Umberto Note on dense universal Hilbert sets. (English and French summaries) **97c:12001**

Items with secondary classifications in 12E25

Dèbes, Pierre Hilbert subsets and S-integral points. (English summary) **97b:11081**
Fein, Burton (*with* Schacher, Murray) Properties of iterates and composites of polynomials. **97h:12007**
Fried, Michael D. Review of: *Topics in Galois theory* [Jones and Bartlett, Boston, MA, 1992; MR 94d:12006] by J.-P. Serre. (English summary) **97b:11064**
Jarden, Moshe Infinite Galois theory. **97b:12011**
Schacher, Murray *see* **Fein, Burton, 97h:12007**
(Serre, Jean-Pierre) *see* **Fried, Michael D., 97b:11064**
Ştefănescu, Doru Polynomials, constructivity and randomness. (English summary) **97h:12001**

12E99 None of the above, but in this section

Items with secondary classifications in 12E99

Bélair, Luc (*with* Haskell, Deirdre) Dependence on parameters in analogues of Hilbert's seventeenth problem. **97k:03047**
Freund, Rudolf (*with* Staiger, Ludwig) Numbers defined by Turing machines. (English summary) **97j:03107**
Haskell, Deirdre *see* **Bélair, Luc, 97k:03047**
Staiger, Ludwig *see* **Freund, Rudolf, 97j:03107**

12Fxx Field extensions

Items with secondary classifications in 12Fxx

Morandi, Patrick ★ Field and Galois theory. (English summary) **97i:12001**

12F05 Algebraic extensions

Alemu, Yismaw *see* **Bereda, H. Michael, 97b:12002**
Bereda, H. Michael (*with* Alemu, Yismaw) A remark on successive quadratic extensions. (English summary) **97b:12002**
Keskar, Pradipkumar H. Linear disjointness by polynomial substitutions. **97h:12009**
Popescu, Angel On almost complementary bases and pseudotraces. (English summary) **97b:12003**
Yayenie, Omer On a primitive element in successive quadratic extensions. (English summary) **97h:12010**

Items with secondary classifications in 12F05

Madunts, A. I. (*with* Zhukov, I. B.) Multidimensional complete fields: topology and other basic constructions. **97b:12009**
Vostokov, S. V. Decomposability of ideals in splitting p-extensions of local fields. (Russian. English and Russian summaries) **97k:11164**
Zhukov, I. B. *see* **Madunts, A. I., 97b:12009**

12F10 Separable extensions, Galois theory

Albu, Toma (*with* Nicolae, Florin; Ţena, Marcel) Some remarks on G-co-Galois field extensions. **97m:12001**
Anai, Hirokazu (*with* Yokoyama, Kazuhiro) Radical representation of polynomial roots. (Japanese) (*see* **97b:68009**)
— (*with* Kondo, Takeshi) A family of sixth degree expressions with Galois group A_5—the computation of splitting fields and Galois groups. (Japanese) (*see* **97c:00054**)
Armeanu, Ion The decomposition of the prime ideals for some particular field extensions. (English and Turkish summaries)
Colliot-Thélène, Jean-Louis (*with* Guralnick, Robert; Wiegand, Roger) Multiplicative groups of fields modulo products of subfields. (English summary) **97d:12004**
— (*with* Guralnick, Robert; Wiegand, Roger) Erratum: "Multiplicative groups of fields modulo products of subfields" [J. Pure Appl. Algebra **106** (1996), no. 3, 233–262; MR 97d:12004]. **97f:12003**
Ershov, Yurīĭ Leonidovich Projectivity of absolute Galois groups of RC_t^*-fields. (English summary) **97k:12002**
Filimonenkov, V. O. On the arithmetic of the coefficients of rational functions with linear-fractional changes of the argument. (Russian) **97a:12002**
Guralnick, Robert *see* **Colliot-Thélène, Jean-Louis; et al., 97d:12004** *and* **97f:12003**
Haran, Dan (*with* Völklein, Helmut) Galois groups over complete valued fields. (English summary) **97c:12002**
Ihara, Yasutaka (*with* Matsumoto, Makoto) On Galois actions on profinite completions of braid groups. (English summary) **97c:12003**
Jarden, Moshe (*with* Razon, Aharon) Skolem density problems over algebraic P$\mathscr{S}$C fields over rings. **97b:12004**
— Infinite Galois theory. **97h:12011**
Keskar, Pradipkumar H. Linear disjointness of coverings of affine spaces. (English summary) **97m:12002**
Kobayashi, Hidetsune (*with* Lin, Dongdai) Some computations over successive algebraic extension fields. (English summary) (*see* **97b:68009**)
Kondo, Takeshi *see* **Anai, Hirokazu, (97c:00054)**
Lin, Dongdai *see* **Kobayashi, Hidetsune, (97b:68009)**
Malinin, D. A. Integral representations of finite groups with Galois action. (Russian)
Matsumoto, Makoto *see* **Ihara, Yasutaka, 97c:12003**
Mattman, Thomas (*with* McKay, John) Computation of Galois groups over function fields. (English summary) **97g:12003**
McKay, John *see* **Mattman, Thomas, 97g:12003**
Movahhedi, A. Galois group of $X^p + aX + a$. **97b:12005**
— (*with* Salinier, A.) The primitivity of the Galois group of a trinomial. **97d:12005**
Müller, Peter[1] (*with* Völklein, Helmut) On a question of Davenport. (English summary) **97h:12012**
Nicolae, Florin *see* **Albu, Toma; et al., 97m:12001**
Razon, Aharon *see* **Jarden, Moshe, 97b:12004**
Roberts, David P. Composita of sextic fields, theory and examples. **97e:12004**
Salinier, A. *see* **Movahhedi, A., 97d:12005**
Ţena, Marcel *see* **Albu, Toma; et al., 97m:12001**
Thiery, Alain $\mathbf{F}_q$-linear Galois theory. (English summary) **97f:12004**
Völklein, Helmut *see* **Haran, Dan, 97c:12002** *and* **Müller, Peter[1], 97h:12012**
Wiegand, Roger *see* **Colliot-Thélène, Jean-Louis; et al., 97d:12004** *and* **97f:12003**
Yokoyama, Kazuhiro *see* **Anai, Hirokazu, (97b:68009)**

Items with secondary classifications in 12F10

Abhyankar, Shreeram S. Mathieu group coverings and linear group coverings. (English summary) **97e:14038**
— Local fundamental groups of algebraic varieties. (English summary) **97h:14032**
Benhissi, Ali La clôture algébrique du corps des séries formelles. [Algebraic closure of the field of formal power series] **97a:12007**

Byott, Nigel P. Uniqueness of Hopf Galois structure for separable field extensions. **97j:16051a**
— Corrigendum: "Uniqueness of Hopf Galois structure for separable field extensions". **97j:16051b**
Frohardt, Daniel (*with* Magaard, Kay) About a conjecture of Guralnick and Thompson. (English summary) **97f:20005**
Girnius, Zara (*with* Liedahl, Steven) K-admissibility of $S_{12}, S_{13}, S_{14}, S_{15}$. **97j:11054**
Hwang, Yoon Sung (*with* Jacob, William B.) Brauer group analogues of results relating the Witt ring to valuations and Galois theory. (English summary) **97a:12004**
Jacob, William B. *see* **Hwang, Yoon Sung, 97a:12004**
Keskar, Pradipkumar H. Linear disjointness by polynomial substitutions. **97h:12009**
King, R. Bruce ★ Beyond the quartic equation. (English summary) **97g:12002**
Lamprecht, E. Über zyklische Erweiterungen p-ten Grades von Körpern, die die p-ten Einheitswurzeln nicht enthalten. [On pth degree cyclic extensions of fields not containing pth roots of unity] **97k:11148**
Le Bruyn, Lieven Generic norm one tori. **97d:14070**
Liedahl, Steven *see* **Girnius, Zara, 97j:11054**
Magaard, Kay *see* **Frohardt, Daniel, 97f:20005**
Mináč, Ján (*with* Spira, Michel) Witt rings and Galois groups. (English summary) **97i:11038**
Müller, Peter[1] Reducibility behavior of polynomials with varying coefficients. (English summary) **97j:12002**
— An infinite series of Kronecker conjugate polynomials. (English summary) **97l:11022**
Spira, Michel *see* **Mináč, Ján, 97i:11038**

12F12 Inverse Galois theory

Carter, James Edgar Characterisations of Galois extensions of prime cubed degree. (English summary) **97m:12003**
El Marraki, Mohamed (*with* Zvonkin, Alexander) Compositions des cartes et hypercartes. (French summary) [Compositions of maps and hypermaps] **97d:12006**
Grundman, Helen G. (*with* Smith, Tara L.) Automatic realizability of Galois groups of order 16. (English summary) **97f:12005**
Ledet, Arne On 2-groups as Galois groups. (English summary) **97a:12003**
— Subgroups of Hol Q_8 as Galois groups. (English summary) **97d:12007**
Madan, Manohar L. (*with* Rzedowski-Calderón, Martha; Villa Salvador, Gabriel) Galois extensions with bounded ramification in characteristic p. On a question of S. Abhyankar. (English summary) **97e:12005**
Malle, Gunter (*with* Sonn, Jack) Covering groups of almost simple groups as Galois groups over $\mathbf{Q}^{ab}(t)$. (English summary) **97j:12003**
Mestre, Jean-François Constructions polynomiales et théorie de Galois. [Polynomial constructions and Galois theory] (*see* **97c:00049**)
Pop, Florian Embedding problems over large fields. **97h:12013**
Rzedowski-Calderón, Martha *see* **Madan, Manohar L.; et al., 97e:12005**
Schneps, Leila On Galois groups and their maximal 2-subgroups. (English summary) **97b:12006**
Smith, Tara L. *see* **Grundman, Helen G., 97f:12005**
Sonn, Jack *see* **Malle, Gunter, 97j:12003**
Swallow, John R. Explicit construction of PSL(2, 7) fields over $\mathbf{Q}(t)$ embeddable in SL(2, 7) fields. (English summary) **97e:12006**
— Solutions to central embedding problems are constructible. (English summary) **97e:12007**
— Central p-extensions of $(p, p, \cdots, p)$-type Galois groups. (English summary) **97m:12004**
Villa Salvador, Gabriel *see* **Madan, Manohar L.; et al., 97e:12005**
Völklein, Helmut Cyclic covers of $\mathbf{P}^1$ and Galois action on their division points. (English summary) **97c:12004**
Zvonkin, Alexander *see* **El Marraki, Mohamed, 97d:12006**

Items with secondary classifications in 12F12

Abhyankar, Shreeram S. Fundamental group of the affine line in positive characteristic. **97b:14034**
Fried, Michael D. Review of: *Topics in Galois theory* [Jones and Bartlett, Boston, MA, 1992; MR 94d:12006] by J.-P. Serre. (English summary) **97b:11064**
Harbater, David Fundamental groups and embedding problems in characteristic p. (English summary) **97b:14035**
Ishkhanov, V. V. (*with* Lur'e, B. B.) An embedding problem with a noncommutative kernel of order p^4. VI. (Russian. Russian summary) **97c:11106**
Jardeu, Moshe Infinite Galois theory. **97h:12011**
Jensen, Christian U. (*with* Prestel, Alexander) Finitely generated pro-p-groups as Galois groups of maximal p-extensions of function fields over $\mathbf{Q}_q$. **97f:11091**
Jones, Gareth A. Dessins d'enfants: bipartite maps and Galois groups. (English summary) **97c:14030**
Lur'e, B. B. *see* **Ishkhanov, V. V., 97c:11106**
Prestel, Alexander *see* **Jensen, Christian U., 97f:11091**
(Serre, Jean-Pierre) *see* **Fried, Michael D., 97b:11064**
Stevenson, Katherine F. Galois groups of unramified covers of projective curves in characteristic p. (English summary) **97d:14039**

12F15 Inseparable extensions

Eke, B. I. Correction to: "Special generating sets of purely inseparable extension fields of unbounded exponent" [Pacific J. Math. **128** (1987), no. 1, 73–79; MR 88e:12003]. **97m:12005**

12F20 Transcendental extensions

Alexandru, Victor (*with* Popescu, Angel; Popescu, Nicolae) Completion of r.t. extensions of local fields. I. (English summary) **97d:12008**
Byeon, Dongho (*with* Kim, Hyun Kwang) On the cancellation problem of Zariski. (English summary) **97b:12007**
(Carlisle, D.) *see* **Chu, Huah, 97h:12014**
Chu, Huah Supplementary note on: "Rational invariants of certain orthogonal and unitary groups" [Bull. London Math. Soc. **24** (1992), no. 1, 57–60; MR 92m:12011] by D. Carlisle and P. H. Kropholler. **97h:12014**
Kim, Hyun Kwang *see* **Byeon, Dongho, 97b:12007**
(Kropholler, Peter H.) *see* **Chu, Huah, 97h:12014**
Popescu, Angel *see* **Alexandru, Victor; et al., 97d:12008**
Popescu, Nicolae *see* **Alexandru, Victor; et al., 97d:12008**
Wan, Zhe Xian On rational bases of subspaces of $F((D))^n$.

Items with secondary classifications in 12F20

Kemper, Gregor A constructive approach to Noether's problem. (English summary) **97d:13005**
Khanduja, Sudesh K. A note on residually transcendental prolongations with uniqueness property. **97j:12007**

12F99 None of the above, but in this section

Laubie, F. (*with* Saïne, M.) Ramification of automorphisms of $k((t))$. (English summary) **97m:12006**
Saïne, M. *see* **Laubie, F., 97m:12006**

Items with secondary classifications in 12F99

Ichim, Ion Extensions trigonométriques. (French summary) [Trigonometric extensions] **97b:42002**
Spodzieja, Stanisław The field of Nash functions and factorization of polynomials. (English summary) **97h:12006**

12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 13A20, 16H05]

Hwang, Yoon Sung (*with* Jacob, William B.) Brauer group analogues of results relating the Witt ring to valuations and Galois theory. (English summary) **97a:12004**
Jacob, William B. *see* **Hwang, Yoon Sung, 97a:12004**
Positsel'skiĭ, L. E. (*with* Vishik, Alexander) Koszul duality and Galois cohomology. **97b:12008**
Vishik, Alexander *see* **Positsel'skiĭ, L. E., 97b:12008**

Items with secondary classifications in 12G05

Colliot-Thélène, Jean-Louis (*with* Guralnick, Robert; Wiegand, Roger) Multiplicative groups of fields modulo products of subfields. (English summary) **97d:12004**
— (*with* Guralnick, Robert; Wiegand, Roger) Erratum: "Multiplicative groups of fields modulo products of subfields" [J. Pure Appl. Algebra **106** (1996), no. 3, 233–262; MR 97d:12004]. **97f:12003**
Fein, Burton (*with* Schacher, Murray) Sums of corestrictions of cyclic algebras. (English summary) **97m:13003**
Guralnick, Robert *see* **Colliot-Thélène, Jean-Louis; et al., 97d:12004** *and* **97f:12003**
Jardeu, Moshe Infinite Galois theory. **97h:12011**
Madan, Manohar L. *see* **Rzedowski-Calderón, Martha; et al., 97k:14025**
Merkur'ev, A. S. On the norm residue homomorphism for fields. **97d:19004**
Mináč, Ján (*with* Spira, Michel) Witt rings and Galois groups. (English summary) **97i:11038**
Rzedowski-Calderón, Martha (*with* Villa Salvador, Gabriel; Madan, Manohar L.) Galois module structure of Tate modules. **97k:14025**
Schacher, Murray *see* **Fein, Burton, 97m:13003**
Serre, Jean-Pierre Cohomologie galoisienne: progrès et problèmes. (French summary) [Galois cohomology: advances and problems] **97d:11063**
Spira, Michel *see* **Mináč, Ján, 97i:11038**
Villa Salvador, Gabriel *see* **Rzedowski-Calderón, Martha; et al., 97k:14025**
Wiegand, Roger *see* **Colliot-Thélène, Jean-Louis; et al., 97d:12004** *and* **97f:12003**

12G99 None of the above, but in this section

Izhboldin, O. T. On the cohomology groups of the field of rational functions. **97e:12008**

12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

Boulier, F. An optimization of Seidenberg's elimination algorithm in differential algebra. (English summary) **97j:12004**
Farto, Jose-Miguel Multiplicity of the solutions of a differential polynomial. (English summary) **97c:12005**
Mitschi, C. (*with* Singer, M. F.) Connected linear groups as differential Galois groups. **97g:12004**
— (*with* Singer, M. F.) On Ramis's solution of the local inverse problem of differential Galois theory. (English summary) **97e:12009**
Moulin Ollagnier, Jean Algorithms and methods in differential algebra. (English summary) **97d:12009**
Nishioka, Keiji Differential field extensions with no movable algebraic branches. (English summary) **97j:12005**
Ohi, Takeo On residues of differential forms over a field of characteristic p. (English summary) **97a:12005**
Reznick, Bruce Homogeneous polynomial solutions to constant coefficient PDE's. **97a:12006**
Sankaran, N. Generic Galois extensions and Picard-Vessiot theory. **97e:12010**
Singer, M. F. *see* **Mitschi, C., 97e:12009** *and* **97g:12004**

Ulmer, Felix (*with* Weil, Jacques-Arthur) Note on Kovacic's algorithm. (English summary) **97j:12006**
Weil, Jacques-Arthur *see* **Ulmer, Felix, 97j:12006**

Items with secondary classifications in 12H05

Betina, Kamel ★ Indices d'opérateurs différentiels et solutions rationnelles. (French. English and French summaries) [Indices of differential operators and rational solutions] **97a:34009**
Borowiec, A. (*with* Kharchenko, V. K.) Algebraic approach to calculuses with partial derivatives. (English summary) **97d:58017**
Kharchenko, V. K. *see* **Borowiec, A., 97d:58017**
Moulin Ollagnier, Jean Liouvillian first integrals of homogeneous polynomial 3-dimensional vector fields. **97i:58007**
Nesterenko, Yu. V. (*with* Shidlovskiĭ, A. B.) On the linear independence of values of E-functions. (Russian. Russian summary) **97k:11106**
— Modular functions and transcendence questions. (Russian. Russian summary) **97m:11102**
Pillay, Anand Model theory, differential algebra, and number theory. **97e:03056**
Pusch, Gordon D. Jet space as the geometric arena of automatic differentiation. (English summary) **97m:58008**
Shidlovskiĭ, A. B. *see* **Nesterenko, Yu. V., 97k:11106**
Väänänen, Keijo Transcendental numbers and complex differential equations. **97a:11117**

12H10 Difference algebra [see also 39Axx]

Items with secondary classifications in 12H10

Chen, Guoting Sur la réduction formelle des systèmes aux différences. (English and French summaries) [On the formal reduction of difference systems] **97f:39004**

12H20 Abstract differential equations [see also 34Gxx]

Items with secondary classifications in 12H20

Bekbaev, U. D. Once again on equivalence and invariants of differential equations of the form $y^{(n)} + a_{n-1}y^{(n-1)} + \cdots + a_0 y = 0$. (Russian. English and Uzbek summaries) **97i:34008**
Grigor'ev, D. Yu. NC solving of a system of linear ordinary differential equations in several unknowns. **97b:34007a**
— NC solving of a system of linear ordinary differential equations in several unknowns. (English summary) **97b:34007b**

12H25 p-adic differential equations [see also 11S80, 14G20, 34Gxx]

Christol, Gilles *see* **Robba, Philippe, 97g:12005**
Garnier, Laurent Correspondance de Katz et irrégularité des isocristaux surconvergents de rang un. [Katz correspondence and irregularity of rank-one overconvergent isocrystals] **97c:12006**
Robba, Philippe (*with* Christol, Gilles) ★ Équations différentielles p-adiques. (French. French summary) [p-adic differential equations] **97g:12005**

Items with secondary classifications in 12H25

Baldassarri, Francesco Special values of symmetric hypergeometric functions. **97a:11188**
Chiarellotto, Bruno (*with* Christol, Gilles) On overconvergent isocrystals and F-isocrystals of rank one. **97b:14021**
Christol, Gilles *see* **Chiarellotto, Bruno, 97b:14021**
Crew, Richard The differential Galois theory of regular singular p-adic differential equations. **97g:14018**
Garnier, Laurent Théorèmes de division sur $\widehat{\mathcal{D}}^{(0)}_{\mathcal{F}Q}$ et applications. (English and French summaries) [Division theorems over $\widehat{\mathcal{D}}^{(0)}_{\mathcal{F}Q}$ and applications] **97c:14020**
Matsuda, Shigeki Local indices of p-adic differential operators corresponding to Artin-Schreier-Witt coverings. **97a:14019**

12Jxx Topological fields

12J05 Normed fields

Escassut, Alain Fractions rationnelles injectives sur un hyper-infraconnexe. [Injective rational fractions on a hyper-infraconnected set] (*see* **97m:00021**)

12J10 Valued fields

Dai, Zhizhong (*with* Zeng, Guang Xing) Valuation theory and generalizations of Hilbert's 17th problem. **97g:12006**
Khanduja, Sudesh K. A note on residually transcendental prolongations with uniqueness property. **97j:12007**
Kim, Yangkon (*with* Koh, Seok Hyun; Park, Daeshik) Some application of a new lemma.
Koh, Seok Hyun *see* **Kim, Yangkon; et al.**
Madunts, A. I. (*with* Zhukov, I. B.) Multidimensional complete fields: topology and other basic constructions. **97b:12009**
Park, Daeshik *see* **Kim, Yangkon; et al.**
Shell, Niel Discrete rings. (English summary) **97g:12007**
Zeng, Guang Xing *see* **Dai, Zhizhong, 97g:12006**
Zhukov, I. B. *see* **Madunts, A. I., 97b:12009**

Items with secondary classifications in 12J10

Bélair, Luc (*with* Bousquet, Michel) Types dans les corps valués. (English and French summaries) [Types in fields with valuation] **97e:03054**
Bousquet, Michel *see* **Bélair, Luc, 97e:03054**
Craven, Thomas C. A weak version of Rolle's theorem. (English summary) **97m:12010**
Haran, Dan (*with* Völklein, Helmut) Galois groups over complete valued fields. (English summary) **97c:12002**
Jarden, Moshe (*with* Razon, Aharon) Skolem density problems over algebraic P$\mathcal{S}$C fields over rings. **97b:12004**
Razon, Aharon *see* **Jarden, Moshe, 97b:12004**
Völklein, Helmut *see* **Haran, Dan, 97c:12002**

12J12 Formally p-adic fields

Items with secondary classifications in 12J12

Knebusch, Manfred (*with* Zhang, Digen) Manis valuations and Prüfer extensions. I. (English summary) **97d:13001**
Zhang, Digen *see* **Knebusch, Manfred, 97d:13001**

12J15 Ordered fields

Kuhlmann, Franz-Viktor (*with* Kuhlmann, Salma; Shelah, Saharon) Exponentiation in power series fields. (English summary) **97m:12007**
Kuhlmann, Salma *see* **Kuhlmann, Franz-Viktor; et al., 97m:12007**
Powers, Victoria Hilbert's 17th problem and the champagne problem. (English summary) **97m:12008**
Shelah, Saharon *see* **Kuhlmann, Franz-Viktor; et al., 97m:12007**

Items with secondary classifications in 12J15

Dai, Zhizhong (*with* Zeng, Guang Xing) Valuation theory and generalizations of Hilbert's 17th problem. **97g:12006**
Duval, Dominique (*with* González-Vega, Laureano) Dynamic evaluation and real closure. (English summary) **97m:68108**
Ehrlich, Philip All numbers great and small. (*see* **97a:00004**)
González-Vega, Laureano *see* **Duval, Dominique, 97m:68108**
Ligatsikas, Zenon (*with* Rioboo, Renaud; Roy, Marie Françoise) Generic computation of the real closure of an ordered field. (English summary) **97m:68112**
Maličký, Peter Consistent orthogonal atomic partitions. (English summary) **97e:06015**
Perović, Žikica Isomorphisms of real closed fields. (English summary) **97h:12005**
Rioboo, Renaud *see* **Ligatsikas, Zenon; et al., 97m:68112**
Roy, Marie Françoise *see* **Ligatsikas, Zenon; et al., 97m:68112**
Zeng, Guang Xing *see* **Dai, Zhizhong, 97g:12006**

12J20 General valuation theory

Arian-Nejad, M. An alternative proof for the extension theorem of matrix valuation. (English summary)
Kuhlmann, Salma Valuation bases for extensions of valued vector spaces. (English summary) **97h:12015**

Items with secondary classifications in 12J20

Spieß, Michael An arithmetic proof of Pop's theorem concerning Galois groups of function fields over number fields. **97h:11144**

12J25 Non-Archimedean valued fields [see also 30G06, 32P05, 46S10, 47S10]

Benhissi, Ali La clôture algébrique du corps des séries formelles. [Algebraic closure of the field of formal power series] **97a:12007**
Diarra, Bertin p-adic characters of the group of units of $\mathbf{C}_p$. (English summary) **97m:12009**
Fagnot, Isabelle Langage de Łukasiewicz et diagonales de séries formelles. (English and French summaries) [Łukasiewicz language and diagonals of formal series] **97g:12008**
Scowcroft, Philip Cross-sections for p-adically closed fields. **97g:12009**

Items with secondary classifications in 12J25

Alexandru, Victor (*with* Popescu, Angel; Popescu, Nicolae) Completion of r.t. extensions of local fields. I. (English summary) **97d:12008**
Berz, Martin Calculus and numerics on Levi-Civita fields. (English summary) **97k:65054**
Escassut, Alain ★ Analytic elements in p-adic analysis. **97e:46106**
Keller, Hans A. (*with* Ochsenius A., Herminia) Bounded operators on non-Archimedian orthomodular spaces. (English summary) **97e:47122**
Kuhlmann, Franz-Viktor (*with* Kuhlmann, Salma; Shelah, Saharon) Exponentiation in power series fields. (English summary) **97m:12007**
Kuhlmann, Salma *see* **Kuhlmann, Franz-Viktor; et al., 97m:12007**
Nakata, Mie The characterization of the rth power of balls in p-adic field. (English summary) **97i:11113**
Ochsenius A., Herminia *see* **Keller, Hans A., 97e:47122**
Pfister, Albrecht ★ Quadratic forms with applications to algebraic geometry and topology. **97c:11046**
Popescu, Angel *see* **Alexandru, Victor; et al., 97d:12008**
Popescu, Nicolae *see* **Alexandru, Victor; et al., 97d:12008**
Shelah, Saharon *see* **Kuhlmann, Franz-Viktor; et al., 97m:12007**
Woodcock, C. F. A p-adic analog of Wirtinger's inequality. **97h:11148**

12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]

Boussaf, Kamal (*with* Escassut, Alain) Composition of analytic elements and quasi-invertibility. (English summary) **97g:12010**
Escassut, Alain *see* **Boussaf, Kamal, 97g:12010**

Items with secondary classifications in 12J27

Christol, Gilles *see* **Robba, Philippe, 97g:12005**

Robba, Philippe (*with* Christol, Gilles) ★ Équations différentielles p-adiques. (French. French summary) [p-adic differential equations] **97g:12005**

12J99 None of the above, but in this section

Craven, Thomas C. A weak version of Rolle's theorem. (English summary) **97m:12010**

Items with secondary classifications in 12J99

Priess-Crampe, Sibylla (*with* Ribenboim, Paulo) Homogeneous ultrametric spaces, semi-valued groups and fields. (English summary) **97a:54032**

Ribenboim, Paulo *see* **Priess-Crampe, Sibylla, 97a:54032**

Shackell, John Extensions of asymptotic fields via meromorphic functions. (English summary) **97e:26001**

12Kxx Generalizations of fields

12K05 Near-fields [see also 16Y30]

Items with secondary classifications in 12K05

Pilz, Günter F. Near-rings and near-fields. (English summary) **97i:16040**

12K10 Semifields [see also 16Y60]

Weinert, Hanns Joachim (*with* Wiegandt, Richard) On the structure of semifields and lattice-ordered groups. **97g:12011**

Wiegandt, Richard *see* **Weinert, Hanns Joachim, 97g:12011**

Items with secondary classifications in 12K10

Hebisch, Udo (*with* Weinert, Hanns Joachim) Semirings and semifields. **97m:16088**

Weinert, Hanns Joachim *see* **Hebisch, Udo, 97m:16088**

12K99 None of the above, but in this section

Kamiya, Noriaki (*with* Santilli, Ruggero Maria) A characterization of pseudoisofields. (English summary)

Santilli, Ruggero Maria *see* **Kamiya, Noriaki**

12Lxx Connections with logic

12L05 Decidability [see also 03B25]

Shlapentokh, Alexandra Diophantine undecidability over algebraic function fields over finite fields of constants. (English summary) **97d:12010**

Items with secondary classifications in 12L05

Matiyasevich, Yu. V. A new technique for obtaining Diophantine representations by eliminating bounded universal quantifiers. (Russian. English and Russian summaries) **97h:03071**

12L12 Model theory [see also 03C60]

Items with secondary classifications in 12L12

Fuchino, Sakaé (*with* Koppelberg, Sabine) On ν^+-saturated ordered fields and Boolean algebras. **97e:03055**

Koppelberg, Sabine *see* **Fuchino, Sakaé, 97e:03055**

Luckhardt, Horst Bounds extracted by Kreisel from ineffective proofs. (*see* **97m:01097**)

Macintyre, Angus J. Exponential algebra. (English summary) **97h:03064**

Scowcroft, Philip Cross-sections for p-adically closed fields. **97g:12009**

12L15 Nonstandard arithmetic [see also 03H15]

Insall, Matt Hyperalgebraic primitive elements for relational algebraic and topological algebraic models. (English summary)

Items with secondary classifications in 12L15

Bilu, Yuri A note on universal Hilbert sets. **97i:12003**

12L99 None of the above, but in this section

Items with secondary classifications in 12L99

Jovanović, Aleksandar (*with* Mijajlović, Žarko) Automatic theorem proving in field theory using quantifier elimination. (English summary) **97c:03042**

Mijajlović, Žarko *see* **Jovanović, Aleksandar, 97c:03042**

Shlapentokh, Alexandra Rational separability over a global field. (English summary) **97d:11190**

12Y05 Computational aspects of field theory and polynomials

Alonso, Cesar (*with* Gutiérrez, Jaime; Recio Muñiz, Tomás J.) A rational function decomposition algorithm using near-separated polynomials. (Spanish)

Greenhill, Catherine S. Theoretical and experimental comparison of efficiency of finite field extensions. (English summary) **97b:12010**

Gutiérrez, Jaime *see* **Alonso, Cesar; et al.**

Huang, Ming-Deh A. (*with* Rao, Ashwin J.) Interpolation of sparse multivariate polynomials over large finite fields with applications. (English summary) **97b:12011**

Rao, Ashwin J. *see* **Huang, Ming-Deh A., 97b:12011**

Recio Muñiz, Tomás J. *see* **Alonso, Cesar; et al.**

Shoup, Victor A new polynomial factorization algorithm and its implementation. (English summary) **97d:12011**

Items with secondary classifications in 12Y05

Coppersmith, Don Finding a small root of a univariate modular equation. (English summary) **97h:94008**

— Finding a small root of a bivariate integer equation; factoring with high bits known. (English summary) **97h:94009**

Crass, Scott (*with* Doyle, Peter) Solving the sextic by iteration: a complex dynamical approach. **97i:58148**

Doyle, Peter *see* **Crass, Scott, 97i:58148**

Ho, Chung-Jen (*with* Yap, Chee-Keng) The Habicht approach to subresultants. (English summary) **97h:13021**

Jouanolou, Jean-Pierre Résultant anisotrope, compléments et applications. [Anisotropic resultant, complements and applications] **97e:14004**

Kozen, Dexter (*with* Landau, Susan; Zippel, Richard) Decomposition of algebraic functions. (English summary) **97m:68111**

Landau, Susan *see* **Kozen, Dexter; et al., 97m:68111**

Li, Tien-Yien (*with* Wang, Tianjun; Wang, Xiaoshen) Random product homotopy with minimal BKK bound. (English summary) **97i:65091**

Pan, Victor Y. A new approach to parallel computation of polynomial GCD and to related parallel computations over fields and integer rings. (English summary) **97f:68058**

Ştefănescu, Doru Polynomials, constructivity and randomness. (English summary) **97h:12001**

Swallow, John R. Explicit construction of PSL(2, 7) fields over $\mathbf{Q}(t)$ embeddable in SL(2, 7) fields. (English summary) **97e:12006**

Wang, Tianjun *see* **Li, Tien-Yien; et al., 97i:65091**

Wang, Xiaoshen *see* **Li, Tien-Yien; et al., 97i:65091**

Winkler, Franz ★ Polynomial algorithms in computer algebra. **97j:68063**

Yap, Chee-Keng *see* **Ho, Chung-Jen, 97h:13021**

Zippel, Richard *see* **Kozen, Dexter; et al., 97m:68111**

13–XX Commutative rings and algebras

13–01 Instructional exposition (textbooks, tutorial papers, etc.)

Eisenbud, David ★ Commutative algebra. (English summary) **97a:13001**

Items with secondary classifications in 13–01

(Artamonov, V. A.) *see* **Exercises in algebra, 97f:00004**
Cox, David A. (*with* Little, John B.; O'Shea, Donal) ★ Ideals, varieties, and algorithms. (English summary) **97h:13024**
Johnston, Bernard L. (*with* Richman, Fred) ★ Numbers and symmetry. (English summary) **97j:00002**
(Kostrikin, Alekseĭ Ivanovich) *see* **Exercises in algebra, 97f:00004**
Little, John B. *see* **Cox, David A.; et al., 97h:13024**
O'Shea, Donal *see* **Cox, David A.; et al., 97h:13024**
Peskine, Christian ★ An algebraic introduction to complex projective geometry. 1. (English summary) **97b:14001**
Richman, Fred *see* **Johnston, Bernard L., 97j:00002**

Items listed otherwise than by author

Exercises in algebra ★ Exercises in algebra. **97f:00004**

13–02 Research exposition (monographs, survey articles)

Gilmer, Robert Zero-dimensional subrings of commutative rings. (English summary) **97a:13002**

Items with secondary classifications in 13–02

Tong, Wen Ting *see* **Zhou, Boxun, 97g:16002**
Zhou, Boxun (*with* Tong, Wen Ting) Some results on homological algebra and module theory. **97g:16002**

13–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 13–03

Kleiner, Israel The genesis of the abstract ring concept. **97f:01018**

13–06 Proceedings, conferences, collections, etc.

(Cahen, Paul-Jean) *see* **Commutative ring theory, 97g:13001**
(Fontana, Marco) *see* **Commutative ring theory, 97g:13001**
(Geramita, Anthony V.) *see* **Seminar: Curves, 97a:13003**
(Houston, Evan) *see* **Commutative ring theory, 97g:13001**
(Kabbaj, Salah-Eddine) *see* **Commutative ring theory, 97g:13001**
(Ngô Việt Trung) *see* **Commutative algebra, 97f:13001**
(Simis, Aron) *see* **Commutative algebra, 97f:13001**
(Valla, Giuseppe) *see* **Commutative algebra, 97f:13001**

Items listed otherwise than by author

Commutative algebra ★ Commutative algebra. **97f:13001**
Commutative ring theory ★ Commutative ring theory. **97g:13001**
Conference:
  Commutative Ring Theory ★ Commutative ring theory. **97g:13001**
Fès ★ Commutative ring theory. **97g:13001**
Kingston, ON ★ The Curves Seminar at Queen's. Vol. X. **97a:13003**
Seminar:
  Curves ★ The Curves Seminar at Queen's. Vol. X. **97a:13003**
Trieste ★ Commutative algebra. **97f:13001**
Workshop:
  Commutative Algebra ★ Commutative algebra. **97f:13001**

Items with secondary classifications in 13–06

(González-Vega, Laureano) *see* **Algorithms in algebraic geometry and applications, 97d:14002**
(Recio Muñiz, Tomás J.) *see* **Algorithms in algebraic geometry and applications, 97d:14002**

Items listed otherwise than by author

Algorithms in algebraic geometry and applications ★ Algorithms in algebraic geometry and applications. **97d:14002**
Conference:
  Effective Methods in Algebraic Geometry ★ Algorithms in algebraic geometry and applications. **97d:14002**
Progress in Mathematics ★ Algorithms in algebraic geometry and applications. **97d:14002**
Santander ★ Algorithms in algebraic geometry and applications. **97d:14002**

13Axx General commutative ring theory

13A02 Graded rings [see also 16W50]

Crona, Kristina Mixed grading on polynomial rings. **97j:13001**
Temte, Mark C. A convenient basis for a graded ring. (English summary) **97f:13001**

Items with secondary classifications in 13A02

Aramova, Annetta G. (*with* Bărcănescu, Şerban; Herzog, Jürgen) On the rate of relative Veronese submodules. **97j:13020**
Bărcănescu, Şerban *see* **Aramova, Annetta G.; et al., 97j:13020**
Crona, Kristina A new class of Koszul algebras. (English and French summaries) **97m:13029**
Harima, Tadahito Some examples of unimodal Gorenstein sequences. (English summary) **97d:13023**
Herzog, Jürgen *see* **Aramova, Annetta G.; et al., 97j:13020**
Katz, Daniel *see* **Verma, J. K.; et al., 97h:13013**
Mandal, Satyagopal *see* **Verma, J. K.; et al., 97h:13013**
Miyazaki, Chikashi Spectral sequence theory for generalized Cohen-Macaulay graded modules. **97g:13019**
Ngô Việt Trung Reduction number, a-invariant and Rees algebras of ideals having small analytic deviation. (English summary) **97f:13007**
Ruppert, Wolfgang M. Embedded primes and the associated graded ring. **97a:13007**
Verma, J. K. (*with* Katz, Daniel; Mandal, Satyagopal) Hilbert functions of bigraded algebras. **97h:13013**
Yanagawa, Kohji Castelnuovo's lemma and h-vectors of Cohen-Macaulay homogeneous domains. (English summary) **97a:13024**

13A05 Divisibility

Anderson, D. D. (*with* Valdes-Leon, Silvia) Factorization in commutative rings with zero divisors. (English summary) **97h:13001**
Valdes-Leon, Silvia *see* **Anderson, D. D., 97h:13001**

Items with secondary classifications in 13A05

Geroldinger, Alfred (*with* Halter-Koch, Franz) On quasi divisor theories and systems of valuations. (English summary) **97a:20097**
Halter-Koch, Franz *see* **Geroldinger, Alfred, 97a:20097**
Shamash, Josephine (*with* Smith, Stuart T.) Addendum to: "Embedding GCD domains in Bézout domains" [J. London Math. Soc. (2) **48** (1993), no. 1, 15–30; MR 94d:13022]. **97k:13026**
Smith, Stuart T. *see* **Shamash, Josephine, 97k:13026**

13A10 Radical theory

Namazi, S. *see* **Sharif, H.; et al., 97j:13002**
Sharif, H. (*with* Sharifi, Y.; Namazi, S.) Rings satisfying the radical formula. **97j:13002**
Sharifi, Y. *see* **Sharif, H.; et al., 97j:13002**

Items with secondary classifications in 13A10

Lucas, Thomas G. The radical trace property and primary ideals. **97f:13002**
Man, Shing Hing One-dimensional domains which satisfy the radical formula are Dedekind domains. **97d:13013**

13A15 Ideals; multiplicative ideal theory

Ali, Majid M. The Ohm type properties for multiplication ideals. (English summary) **97m:13001**
Anderson, D. D. (*with* Roitman, Moshe) A characterization of cancellation ideals. (English summary) **97m:13002**
Banaschewski, B. Radical ideals and coherent frames. (English summary) **97g:13002**
Choi, Chang Woo (*with* Park, Young Soo) On cancellation ideals. (English summary)
Dichi, Henri Filtrations, Prüferian closure relative to a module. **97j:13003**
Gottlieb, Christian On ideals which are almost zero, and related concepts. **97b:13001**
Heinzer, William (*with* Mirbagheri, Ahmad; Ratliff, L. J., Jr.; Shah, Kishor) Parametric decomposition of monomial ideals. II. (English summary) **97k:13001**
Kim, Se Gyeong *see* **Song, Yeong Moo, 97j:13004**
Lucas, Thomas G. The radical trace property and primary ideals. **97f:13002**
Matsuda, Ryûki (*with* Sugatani, Takasi) Semistar-operations on integral domains. II. **97b:13002**
— (*with* Sato, Iwao^2) Note on star-operations and semistar-operations. **97f:13003**
Mirbagheri, Ahmad *see* **Heinzer, William; et al., 97k:13001**
Park, Young Soo *see* **Choi, Chang Woo**
Ratliff, L. J., Jr. *see* **Heinzer, William; et al., 97k:13001**
Roitman, Moshe *see* **Anderson, D. D., 97m:13002**
Romano, Daniel Avraám A theorem on residual ideal of a commutative ring with apartness. (English summary)
— Some results on quotient coideal of coideal which is the union of primary coideals. (English and Serbo-Croatian summaries)
Sato, Iwao^2 *see* **Matsuda, Ryûki, 97f:13003**
Shah, Kishor *see* **Heinzer, William; et al., 97k:13001**
Song, Yeong Moo (*with* Kim, Se Gyeong) Reductions of ideals in commutative Noetherian semi-local rings. (English summary) **97j:13004**
Sugatani, Takasi *see* **Matsuda, Ryûki, 97b:13002**
Swanson, Irena Powers of ideals. Primary decompositions, Artin-Rees lemma and regularity. **97j:13005**
Taherizadeh, A. J. Irrelevant attached prime ideals of a certain Artinian module over a commutative ring. (English summary) **97k:13002**

Items with secondary classifications in 13A15

Anderson, D. D. (*with* Valdes-Leon, Silvia) Factorization in commutative rings with zero divisors. (English summary) **97h:13001**
Bae, Chul Kon (*with* Park, June-Won) On principal ideals in polynomial rings. **97m:13043**
Barucci, Valentina (*with* Houston, Evan) On the prime spectrum of a Mori domain. **97e:13026**
Bazzoni, S. Class semigroups of Prüfer domains. (English summary) **97k:13014**
Gabelli, Stefania A class of Prüfer domains with nice divisorial ideals. **97m:13042**
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13A18 Valuations and their generalizations

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13A20 Brauer groups [see also 12Gxx, 16H05]

Coghlan, Francis (*with* Hoffman, Peter) Division graded algebras in the Brauer-Wall group. (English summary) **97a:13004**
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— Annulation, par changement de variable, d'éléments de $\mathrm{Br}_2(k(x))$, où k est un corps fini. (English and French summaries) [Base change killing of elements of $\mathrm{Br}_2(k(x))$, k a finite field] **97e:13002**
Reyes Sánchez, M. V. (*with* Verschoren, Alain) Involutive Brauer groups of a Krull domain. (English summary) **97a:13005**
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Grundman, Helen G. (*with* Smith, Tara L.) Automatic realizability of Galois groups of order 16. (English summary) **97f:12005**
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— (*with* Margolin, G. L.) Erratum: "Brauer groups of local hyperelliptic curves with good reduction". (Russian) **97c:11066b**

13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics

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Goto, Shiro (*with* Nakamura, Yukio; Nishida, Koji) Cohen-Macaulayness in graded rings associated to ideals. **97f:13005**
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— (*with* Hyry, Eero; Korb, Thomas) Filter-regularity and Cohen-Macaulay multigraded Rees algebras. **97d:13002**
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Johnson, Mark Ray (*with* Ulrich, Bernd) Artin-Nagata properties and Cohen-Macaulay associated graded rings. **97f:13006**
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Morey, Susan (*with* Ulrich, Bernd) Rees algebras of ideals with low codimension. (English summary) **97e:13006**
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— *see also* **Goto, Shiro; et al., 97f:13005**
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— *see also* **Morey, Susan, 97e:13006**; **Johnson, Mark Ray, 97f:13006** *and* **Kennedy, Gary; et al., 97g:13004**

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Conca, Aldo (*with* Herzog, Jürgen; Valla, Giuseppe) Sagbi bases with applications to blow-up algebras. **97h:13023**
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Eisenbud, David (*with* Sturmfels, Bernd) Binomial ideals. **97d:13031**
Heinzer, William (*with* Mirbagheri, Ahmad; Ratliff, L. J., Jr.; Shah, Kishor) Parametric decomposition of monomial ideals. II. (English summary) **97k:13001**
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Molinelli, Silvia (*with* Tamone, Grazia) Generators of the derivation module of the Rees ring for monomial curves. (English summary) **97g:13010**
Ngô Viêt Trung The lifting of determinantal prime ideals. (English summary) **97i:13012**
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Planas-Vilanova, Francesc Vanishing of the André-Quillen homology module $H_2(A, B, G(I))$. (English summary) **97g:13027**
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Srinivas, Vasudevan (*with* Trivedi, Vijaylaxmi) The invariance of Hilbert functions of quotients under small perturbations. **97m:13036**
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13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [see also 13Mxx]

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Crupi, Marilena New theorems on rings with p-basis. (English and Italian summaries) **97e:13008**
Dumitrescu, Tiberiu Regularity and finite flat dimension in characteristic $p > 0$. (English summary) **97f:13009**

Hara, Nobuo F-injectivity in negative degree and tight closure in graded complete intersection rings. (English summary) **97b:13004**
— F-regularity and F-purity of graded rings. **97c:13001**
Katzman, Mordechai Finiteness of $\bigcup_r \operatorname{Ass} F^r(M)$ and its connections to tight closure. **97i:13003**
— Finite criteria for weak F-regularity. **97m:13005**
Smith, Karen E. F-rational rings have rational singularities. (English summary) **97k:13004**
Velez, Juan D. Recent advances in commutative algebra: the theory of tight closure. (Spanish. Spanish summary) **97a:13008**

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Aberbach, Ian M. Arithmetic Macaulayfications using ideals of dimension one. **97h:13002**
Hara, Nobuo (*with* Watanabe, Kei-ichi) The injectivity of Frobenius acting on cohomology and local cohomology modules. (English summary) **97i:13016**
Watanabe, Kei-ichi *see* **Hara, Nobuo, 97i:13016**

13A50 Invariant theory [see also 14D25]

Aslaksen, Helmer (*with* Tan, Eng-Chye; Zhu, Chen-Bo) On $O_m \times GL_n$ highest weight vectors. **97a:13009**
Avramov, Luchezar L. (*with* Borek, Adam) Factorial extensions of regular local rings and invariants of finite groups. **97j:13007**
Borek, Adam *see* **Avramov, Luchezar L., 97j:13007**
Campbell, H. E. A. (*with* Hughes, I. P.) 2-dimensional vector invariants of parabolic subgroups of $Gl_2(\mathbf{F}_p)$ over the field $\mathbf{F}_p$. (English summary) **97g:13007**
— (*with* Hughes, I. P.) The ring of upper triangular invariants as a module over the Dickson invariants. **97h:13003**
Green, James A. On a formula of J. Deruyts. (English summary) **97d:13004**
Hewett, T. J. Modular invariant theory of parabolic subgroups of $GL_n(\mathbf{F}_q)$ and the associated Steenrod modules. **97c:13002**
Howe, Roger (*with* Huang, Rosa) Projective invariants of four subspaces. (English summary) **97b:13005**
Hu, Shou-Jen (*with* Kang, Ming-chang) Efficient generation of the ring of invariants. (English summary) **97b:13006**
Huang, Rosa *see* **Howe, Roger, 97b:13005**
Hughes, I. P. *see* **Campbell, H. E. A., 97g:13007** *and* **97h:13003**
Ignatenko, V. F. Invariants of finite and infinite groups generated by reflections. (English summary) **97b:13007**
Iltyakov, A. V. On rational invariants of the group E_6. (English summary) **97b:13008**
Kang, Ming-chang *see* **Hu, Shou-Jen, 97b:13006**
Kemper, Gregor A constructive approach to Noether's problem. (English summary) **97d:13005**
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Richman, David R. Invariants of finite groups over fields of characteristic p. (English summary) **97i:13005**
— Explicit generators of the invariants of finite groups. (English summary) **97k:13005**
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(Laubenbacher, Reinhard C.) *see* **Hilbert, David[1], 97j:01049**
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Neusel, Mara D. Cubic invariants of GL(2, **Z**). **97d:20058**
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Pham Anh Minh *see* **Nguyễn Hữ'u Việt Hu'ng, 97c:55027**
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Sepanski, Mark R. Kostant's conjecture and $L_2(q)$ invariant theory in the rank two Lie groups. **97g:20020**
(Sturmfels, Bernd) *see* **Hilbert, David[1], 97j:01049**
Tambara, D. Matrix invariants for the symmetric group of degree five. (English summary) **97m:05262**

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Al-Khamees, Yousif (*with* Mordeson, John N.) Fuzzy localized subrings. (English summary) **97m:13006**
Ameri, R. *see* **Zahedi, M. M., 97i:13006**
Bulatov, A. A. Polynomial reducts of modules. (Russian)
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Cho, Yong-Hwan Pseudo-valuation domains. (English summary) **97k:13006**
Feng, Deng Guo (*with* Pei, Ding Yi) The relationship between two Chrestenson spectra on the ring $\mathbf{Z}_N$. (Chinese)
Kumbhojkar, H. V. Some comments on spectrums of prime fuzzy ideals of a ring. (English summary)
Malik, D. S. (*with* Mordeson, John N.) $\mathcal{R}$-primary L-representations of L-ideals. (English summary) **97c:13004**
Mordeson, John N. Fuzzy intersection equations and primary representations. (English summary) **97e:13010**
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Mukherjee, T. K. (*with* Sen, Mridul Kanti; Roy, Dipak) On fuzzy submodules and their radicals. (English summary) **97g:13008**
Pei, Ding Yi *see* **Feng, Deng Guo**
Rege, M. B. (*with* Chhawchharia, Sima) Armendariz rings.
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— (*with* Mullins, Bernadette) Quotients of unit groups of commutative rings. **97j:16046**
Chuai, Jian-Jun The covers of a Noetherian module. (English summary) **97g:13023**
Georgescu, George The reticulation of a quantale. **97g:06011**
Johnson, E. W. *see* **Anderson, D. D., 97h:06022**
Kurakin, V. L. (*with* Kuz'min, A. S.; Mikhalëv, A. V.; Nechaev, A. A.) Linear recurring sequences over rings and modules. **97a:11201**
Kuz'min, A. S. *see* **Kurakin, V. L.; et al., 97a:11201**
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13Bxx Ring extensions and related topics

13B02 Extension theory

Dobbs, David E. (*with* Gilbert, Michael S.) Polynomial or power series extensions with linearly ordered intermediate rings. (English summary) **97f:13011**
Gilbert, Michael S. *see* **Dobbs, David E., 97f:13011**
Gilmer, Robert (*with* Heinzer, William) Every local ring is dominated by a one-dimensional local ring. (English summary) **97j:13009**
Glaz, Sarah Coherence, regularity and homological dimensions of commutative fixed rings. (English summary) **97f:13012**
Heinzer, William *see* **Gilmer, Robert, 97j:13009**
Kanemitsu, Mitsuo (*with* Yoshida, Ken-ichi[1]) The classification of primary ideals. **97e:13011**
— (*with* Sato, Junro; Yoshida, Ken-ichi[1]) Integrality and LCM-stableness of simple extensions over Noetherian domains. **97e:13012**
Oda, Susumu *see* **Sato, Junro; et al.**
Picavet-L'Hermitte, Martine Decomposition of order morphisms into minimal morphisms. (English summary) **97m:13008**
Popescu, Elena-Liliana On a paper of Peter Schenzel. (English summary) **97h:13005**
— On a theorem of Samuel and Zariski. **97k:13007**
Sato, Junro (*with* Oda, Susumu; Yoshida, Ken-ichi[1]) A characterization of anti-integral extensions.
— *see also* **Kanemitsu, Mitsuo; et al., 97e:13012**
Yoshida, Ken-ichi[1] *see* **Kanemitsu, Mitsuo, 97e:13011; 97e:13012** *and* **Sato, Junro; et al.**

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Avramov, Luchezar L. (*with* Borek, Adam) Factorial extensions of regular local rings and invariants of finite groups. **97j:13007**
Borek, Adam *see* **Avramov, Luchezar L., 97j:13007**
Maloo, Alok Kumar Weak normalisation and the power series rings. (English summary) **97m:13044**
Oda, Susumu On a subring of an integral domain obtained by intersecting a field. **97i:13021**
— *see also* **Sato, Junro; et al., 97b:13010**
Sato, Junro (*with* Oda, Susumu; Yoshida, Ken-ichi[1]) On excellent elements of anti-integral extensions. **97b:13010**
Yoshida, Ken-ichi[1] *see* **Sato, Junro; et al., 97b:13010**

13B05 Galois theory (commutative rings)

Carboni, Aurelio (*with* Janelidze, George; Magid, Andy R.) A note on the Galois correspondence for commutative rings. **97g:13009**
Janelidze, George *see* **Carboni, Aurelio; et al., 97g:13009**
Magid, Andy R. *see* **Carboni, Aurelio; et al., 97g:13009**
Nagahara, Takasi Infinite Galois theory of commutative semi-connected rings. (*see* **97a:16001**)

Items with secondary classifications in 13B05

Hutchinson, Kevin Hecke actions on the K-theory of commutative rings. (English summary) **97e:19005**

13B10 Morphisms and derivations

Bhatwadekar, S. M. (*with* Dutta, Amartya Kumar) Kernel of locally nilpotent R-derivations of $R[X, Y]$. (English summary) **97m:13009**
Bonanzinga, Vittoria Systems of integrable derivations. (English summary) **97j:13010**
Daigle, D. On some properties of locally nilpotent derivations. (English summary) **97i:13007**
Dutta, Amartya Kumar *see* **Bhatwadekar, S. M., 97m:13009**
Furuya, Mamoru (*with* Niitsuma, Hiroshi) Notes on differential ideals of Laskerian rings. (English summary) **97m:13010**
Molinelli, Silvia (*with* Tamone, Grazia) Generators of the derivation module of the Rees ring for monomial curves. (English summary) **97g:13010**
Niitsuma, Hiroshi *see* **Furuya, Mamoru, 97m:13010**
Papadima, Ştefan (*with* Paunescu, Laurentiu) Reduced weighted complete intersection and derivations. (English summary) **97e:13013**
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Tamone, Grazia *see* **Molinelli, Silvia, 97g:13010**
Zhao, Kai Ming Automorphisms of polynomial algebras in two indeterminates over integral domains. (Chinese. Chinese summary) **97d:13006**

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Ahern, Patrick (*with* Forstneric, Franc; Varolin, Dror) Flows on $\mathbf{C}^2$ with polynomial time one map. (English summary) **97g:32040**
van den Essen, Arno (*with* Hubbers, Engelbert) A new class of invertible polynomial maps. (English summary) **97m:14019**
Forstneric, Franc *see* **Ahern, Patrick; et al., 97g:32040**
Hubbers, Engelbert *see* **van den Essen, Arno, 97m:14019**
Utano, Rosanna Almost complete intersection rings with universal finite module of differentials. (English summary) **97k:13028**
Varolin, Dror *see* **Ahern, Patrick; et al., 97g:32040**

13B15 Ramification theory

Items with secondary classifications in 13B15

Dobbs, David E. Locally Henselian going-down domains. (English summary) **97d:13007**

13B21 Integral dependence

Reid, Les (*with* Roberts, Leslie G.) A new criterion for weak subintegrality. (English summary) **97g:13011**
Roberts, Leslie G. *see* **Reid, Les, 97g:13011**

Items with secondary classifications in 13B21

Bruns, Winfried Tight closure. (English summary) **97d:13003**
Dobbs, David E. Absolutely injective integral domains. (English summary) **97k:13025**

13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)

D'Anna, Marco Canonical module and one-dimensional analytically irreducible Arf domains. **97j:13011**
Kanemitsu, Mitsuo (*with* Koizumi, Takuya; Yoshida, Ken-ichi[1]) Integral closedness in finitely generated ring-extensions of Noetherian domains. **97m:13011**
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— *see also* **Ayache, Ahmed; et al., 97d:13024**
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13C05 Structure, classification theorems

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— Homotopy and sections of algebraic vector bundles over real affine algebras. **97m:13017**
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— *see also* **Tiraş, Y.; et al., 97e:13018**
Jarisch, Ralf (*with* Mutzbauer, Otto; Toubassi, Elias) Calculating indicators in a class of mixed modules. **97k:13012**
Keskin, D. (*with* Özcan, A. Ç.; Tiraş, Y.) On prime submodules. (English summary)
Liu, Chao Bin Some results on multiplication modules. (Chinese. English and Chinese summaries) **97k:13013**
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— *see also* **Harmancı, Abdullah; et al., 97c:13005** *and* **Keskin, D.; et al.**
Toubassi, Elias *see* **Jarisch, Ralf; et al., 97k:13012** *and* **Mutzbauer, Otto, 97m:13023**
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Yan, Neng Zhong Approximate Cohen-Macaulay modules. (Chinese. Chinese summary)

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Morey, Susan (*with* Ulrich, Bernd) Rees algebras of ideals with low codimension. (English summary) **97e:13006**
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Watanabe, Junzo Hankel matrices and Hankel ideals. **97g:13022**
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13C15 Dimension theory, depth, related rings (catenary, etc.)

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Girolami, Florida (*with* Kabbaj, Salah-Eddine) The dimension of the tensor product of two particular pullbacks. **97e:13019**
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Lee, Heisook (*with* Nam, Y. S.) Some equidimensional Hilbert rings. **97c:13008**
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Gilmer, Robert (*with* Heinzer, William) Every local ring is dominated by a one-dimensional local ring. (English summary) **97j:13009**
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Khalis, Mohammed (*with* Nour el abidine, Driss) On the class group of a pullback. **97j:13015**
Nour el abidine, Driss Groupe des classes des anneaux de polynômes sur un $D + M$. [Class group of rings of polynomials over a $D + M$] **97k:13015**
— *see also* **Khalis, Mohammed, 97j:13015**
Pettersson, Kerstin Corrigendum: "The Picard group of Noetherian integral domains whose integral closures are principal ideal domains" [Comm. Algebra **23** (1995), no. 13, 4991–4994; MR 96j:13007]. **97a:13015**
Salce, L. *see* **Bazzoni, S., 97h:13010**
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Motwani, J. V. (*with* Sohoni, Milind) Normality of ladder determinantal rings. (English summary) **97m:13027a**
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Raskind, Wayne *see* **Guralnick, Robert; et al., 97e:14002**
Reid, Les (*with* Roberts, Leslie G.) A new criterion for weak subintegrality. (English summary) **97g:13011**
Reyes Sánchez, M. V. (*with* Verschoren, Alain) Involutive Brauer groups of a Krull domain. (English summary) **97a:13005**
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13C40 Linkage, complete intersections and determinantal ideals [see also 14M12]

Becker, Eberhard (*with* Cardinal, J. P.; Roy, Marie Françoise; Szafraniec, Z.) Multivariate Bezoutians, Kronecker symbol and Eisenbud-Levine formula. **97f:13011**
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Conca, Aldo Gorenstein ladder determinantal rings. (English summary) **97g:13020**
Fiorentini, Mario (*with* Simon, Anne-Marie) Residual intersections and linkage for ideals of the weak principal class. (English summary) (*see* **97f:13001**)
Fischer, Klaus G. (*with* Morris, Walter; Shapiro, Jay) Affine semigroup rings that are complete intersections. (English summary) **97m:13026**
Keum, Jong Hae Monomial curves which are set-theoretic complete intersections. (English summary)
Kulkarni, Devadatta M. Counting of paths and coefficients of the Hilbert polynomial of a determinantal ideal. (English summary) **97f:13018**
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— (*with* Hibi, Takayuki) Alexander duality theorem and second Betti numbers of Stanley-Reisner rings. **97m:13033**
— (*with* Hibi, Takayuki) Finite free resolutions and 1-skeletons of simplicial complexes. (English summary) **97k:13017**

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Malashonok, G. I. Algorithms for computing determinants in commutative rings. (Russian. Russian summary) **97c:13020**
Noro, Masayuki The GCD of polynomials in one variable over successive algebraic extension fields. (Japanese) (*see* **97b:68009**)
Norton, Graham On n-dimensional sequences. I. (English summary) **97h:13026**
— On the minimal realizations of a finite sequence. (English summary) **97h:13027**
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Pan, Victor Y. A new approach to parallel computation of polynomial GCD and to related parallel computations over fields and integer rings. (English summary) **97f:68058**
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Wang, Xiaoshen *see* **Rojas, J. Maurice, 97e:14063**

14–XX Algebraic geometry

14–01 Instructional exposition (textbooks, tutorial papers, etc.)

Harris, Joseph Daniel ★ Algebraic geometry. (English summary) **97e:14001**
Peskine, Christian ★ An algebraic introduction to complex projective geometry. 1. (English summary) **97b:14001**

Items with secondary classifications in 14–01

Cox, David A. (*with* Little, John B.; O'Shea, Donal) ★ Ideals, varieties, and algorithms. (English summary) **97h:13024**
Little, John B. *see* **Cox, David A.; et al., 97h:13024**
Lorenzini, Dino ★ An invitation to arithmetic geometry. **97e:14035**
O'Shea, Donal *see* **Cox, David A.; et al., 97h:13024**
Shurman, Jerry ★ Geometry of the quintic. (English summary) **97i:12002**

14–02 Research exposition (monographs, survey articles)

Viehweg, Eckart ★ Quasi-projective moduli for polarized manifolds. **97j:14001**

Items with secondary classifications in 14–02

(Barlow, Rebecca) *see* **Beauville, Arnaud, 97e:14045**
Beauville, Arnaud ★ Complex algebraic surfaces. **97e:14045**
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Harbater, David Fundamental groups of curves in characteristic p. **97f:14027**
Iskovskikh, V. A. (*with* Shafarevich, I. R.) Algebraic surfaces [MR 91f:14029]. (*see* **97a:14001**)
(Reid, Miles) *see* **Beauville, Arnaud, 97e:14045**
Shafarevich, I. R. *see* **Iskovskikh, V. A., (97a:14001)**
(Shepherd-Barron, N. I.) *see* **Beauville, Arnaud, 97e:14045**

14–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 14–03

Albanese, Giacomo ★ Collected papers of Giacomo Albanese. (Italian) **97m:01100**
(Bottazzini, Umberto) *see* **Enriques, Federigo, 97m:01104**
Brigaglia, Aldo (*with* Ciliberto, Ciro) ★ Italian algebraic geometry between the two world wars. **97a:01070**
(Castelnuovo, Guido) *see* **Enriques, Federigo, 97m:01104**
Ciliberto, Ciro *see* **Brigaglia, Aldo, 97a:01070**; **Torelli, Ruggiero, 97g:01033** *and* **Albanese, Giacomo, 97m:01100**
(Coleman, A. John) *see* **Samuel, Pierre, 97b:01031**
(Conte, Alberto) *see* **Enriques, Federigo, 97m:01104**
(Duflot, Jeanne) *see* **Brigaglia, Aldo, 97a:01070**
Enriques, Federigo ★ Riposte armonie. (Italian. Italian summary) [Secret harmonies] **97m:01104**
(Gario, Paola) *see* **Enriques, Federigo, 97m:01104**
Lemaire, Julien *see* **Michel, Charles; et al., 97m:01109**
(Levi, Beppo) *see* **Schappacher, Norbert, 97m:01058**
Manin, Yuriĭ Ivanovich ★ Selected papers of Yu. I. Manin. **97m:01108**
Michel, Charles (*with* Lemaire, Julien; Singier, Gaston) ★ Compléments de géométrie moderne [Michel]. Exercices de géométrie moderne [Lemaire]. Les correspondances algébriques (1, 1), (2, 1), (2, 2) [Singier]. (French) [Complements of modern geometry [Michel]. Exercises of modern geometry [Lemaire]. The algebraic correspondences (1, 1), (2, 1), (2, 2) [Singier]] **97m:01109**
Previato, Emma Seventy years of spectral curves: 1923–1993. (English summary) **97e:58119**
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Samuel, Pierre ★ Collected papers of Pierre Samuel. Vol. I, II. (French) **97b:01031**
Schappacher, Norbert (*with* Schoof, René) Beppo Levi and the arithmetic of elliptic curves. **97m:01058**
Schoof, René *see* **Schappacher, Norbert, 97m:01058**
(Sernesi, Edoardo) *see* **Torelli, Ruggiero, 97g:01033** *and* **Albanese, Giacomo, 97m:01100**
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(Szpiro, Lucien) *see* **Samuel, Pierre, 97b:01031**
Torelli, Ruggiero ★ Collected papers of Ruggiero Torelli. (Italian) **97g:01033**

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14–06 Proceedings, conferences, collections, etc.

(Broglia, Fabrizio) *see* **Lectures in real geometry, 97j:14003**
(Campillo, Antonio) *see* **Algebraic geometry and singularities, 97a:14002**
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(Geramita, Anthony V.) *see* **Seminar: Curves, 97a:13003**
(Golod, E. S.) *see* **Algebraic geometry, 97e:00008** *and* **97g:00024**
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— ★ Algebraic geometry. 5. **97g:00024**
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14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

Simis, Aron (*with* Ulrich, Bernd; Vasconcelos, Wolmer V.) Tangent star cones. **97m:14001**
Ulrich, Bernd *see* **Simis, Aron; et al., 97m:14001**
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Kim, Saeja Oh Connectedness of a variety generated by an order ideal on the punctured spectrum. (English summary) **97d:13010**
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14A10 Varieties

Nowak, Krzysztof Jan On proper morphisms between algebraic varieties. (English summary) **97g:14001**

14A15 Schemes

Blass, Piotr (*with* Klasa, Stan) Alexandre Grothendieck's EGA V. I. Axiomatization of some geometric results (interpretation and rendition of his "prenotes").
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Ulrich, Bernd *see* **Simis, Aron; et al., 97m:14001**
Vasconcelos, Wolmer V. *see* **Simis, Aron; et al., 97m:14001**

14A20 Generalizations (algebraic spaces, motifs)

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Joshua, Roy The intersection cohomology and derived category of algebraic stacks. (English summary) **97a:14020**
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14A22 Noncommutative algebraic geometry; algebraic supervarieties [see also 14M30, 32C11, 58A50]

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14A25 Elementary questions

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Diers, Yves Categories of algebraic sets. (English summary) **97h:18008**
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14A99 None of the above, but in this section

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Fujiwara, Kazuhiro Theory of tubular neighborhood in étale topology. **97d:14028**
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14Bxx Local theory [see also 32Sxx]

14B05 Singularities [see also 14E15, 14H20, 32Sxx, 58C27]

Cumino, Caterina (*with* Tedeschi, Giulio) On the order of global branches. (English and Italian summaries) **97j:14004**
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Smith, Karen E. F-rational rings have rational singularities. (English summary) **97k:13004**
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Xu, Yi-Jing (*with* Yau, Stephen S.-T.) Micro-local characterization of quasi-homogeneous singularities. (English summary) **97m:32049**
Yau, Stephen S.-T. *see* **Xu, Yi-Jing**, **97m:32049**
Zelevinsky, Andrei *see* **Weyman, Jerzy**, **97m:14050**

14B07 Deformations of singularities [see also 14D15, 32Sxx]

Chevallier, Benoît Secteurs et déformations locales de courbes réelles. [Sectors and local deformations of real curves] **97m:14002**
Slodowy, Peter Groups and special singularities. **97d:14004**
Wall, Charles T. C. Weighted homogeneous complete intersections. (English summary) **97h:14002**

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Buchweitz, Ragnar-Olaf (*with* Millson, John J.) CR-geometry and deformations of isolated singularities. (English summary) **97g:32045**
Chevallier, Benoît Smoothing isolated singularities on real algebraic surfaces. (English summary) **97d:14083**
Fantechi, Barbara Deformation of Hilbert schemes of points on a surface. (English summary) **97b:14012**
de Jong, Theo Globalization of admissible deformations. **97e:32040**
Millson, John J. *see* **Buchweitz, Ragnar-Olaf**, **97g:32045**
Miyajima, Kimio A note on the Bogomolov-type smoothness on deformations of the regular parts of isolated singularities. (English summary) **97d:32027**
Shustin, E. I. Smoothness and irreducibility of families of plane algebraic curves with ordinary singularities. (English summary) **97c:14028**
Tsuboi, Syōji Cubic hyper-equisingular families of complex projective varieties. I, II. **97b:14010**
Urabe, Tohsuke The principle describing possible combinations of singularities in deformations of a fixed singularity. **97k:14002**

14B10 Infinitesimal methods [see also 13D10]

Items with secondary classifications in 14B10

Fantechi, Barbara Deformation of Hilbert schemes of points on a surface. (English summary) **97b:14012**
Stevens, Jan Computing versal deformations. (English summary) **97c:32053**

14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

Items with secondary classifications in 14B12

Chevallier, Benoît Secteurs et déformations locales de courbes réelles. [Sectors and local deformations of real curves] **97m:14002**
El Khadiri, A. (*with* Tougeron, J.-Cl.) Familles noethériennes de modules sur $k\{x\}$ et applications. [Noetherian families of modules of $k\{x\}$ and applications] **97g:13028**
Ishii, Akira Semi-universal family of reflexive modules over a rational double point of type A. **97h:14014**
Manetti, Marco Algebraization of analytic curve germs passing through isolated surface singularities. **97h:32059**
Tougeron, J.-Cl. *see* **El Khadiri, A.**, **97g:13028**

14B15 Local cohomology [see also 13D45, 32C36]

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Aleksandrov, Aleksandr G. A formula of Hirzebruch and its generalizations. (English summary) **97c:32048**
Bueso, J. L. (*with* Jara, Pascual; Jeremías López, A.) Generalized local duality. **97a:13011**
Jara, Pascual *see* **Bueso, J. L.; et al.**, **97a:13011**
Jeremías López, A. *see* **Bueso, J. L.; et al.**, **97a:13011**
Kawasaki, Ken-Ichiroh On the finiteness of Bass numbers of local cohomology modules. (English summary) **97a:13025**

14B20 Formal neighborhoods

Bădescu, Lucian Algebraic Barth-Lefschetz theorems. **97d:14005**

14B99 None of the above, but in this section

Items with secondary classifications in 14B99

Kambayashi, Tatsuji Pro-affine algebras, Ind-affine groups and the Jacobian problem. (English summary) **97m:13047**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Chang, Mei-Chu The number of components of Hilbert schemes. **97f:14002**
— Inequidimensionality of Hilbert schemes. (English summary) **97j:14005**
Cheah, Jan The Hodge polynomial of the Fulton-MacPherson compactification of configuration spaces. (English summary) **97i:14001**
— On the cohomology of Hilbert schemes of points. **97b:14005**
Elizondo, E. Javier (*with* Hain, Richard M.) Chow varieties of abelian varieties. (English summary) **97j:14006**
Fantechi, Barbara (*with* Pardini, Rita) On the Hilbert scheme of curves in higher-dimensional projective space. (English summary) **97g:14002**
Hain, Richard M. *see* **Elizondo, E. Javier**, **97j:14006**
Hermoso, C. (*with* Sols Lucía, Ignacio) Bases of the homology spaces of the Hilbert scheme of points in an algebraic surface. (English summary) **97h:14003**
Ito, Yukari (*with* Nakamura, Iku) McKay correspondence and Hilbert schemes. **97k:14003**
Kleppe, Jan O. Concerning the existence of nice components in the Hilbert scheme of curves in $\mathbf{P}^n$ for $n = 4$ and 5. **97e:14005**
Nakamura, Iku *see* **Ito, Yukari**, **97k:14003**
Oh, Kyungho (*with* Rao, Aroor Prabhakar) Dimension of the Hilbert scheme of curves in $\mathbf{P}^3$. (English summary) **97c:14001**
Pardini, Rita *see* **Fantechi, Barbara**, **97g:14002**
Rahavandrainy, Olivier Quelques composantes des strates de Brill-Noether de $\mathrm{Hilb}_N \mathbf{P}^2$. (English and French summaries) [Some irreducible components of Brill-Noether strata of $\mathrm{Hilb}_N \mathbf{P}^2$] **97b:14006**
Rao, Aroor Prabhakar *see* **Oh, Kyungho**, **97c:14001**
Reeves, Alyson A. The radius of the Hilbert scheme. **97g:14003**
Rogora, Enrico A note on a construction suggested by Eugenio Bertini. (Italian summary) **97b:14007**
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Ballico, Edoardo (*with* Keem, Changho) Families of smooth k-gonal curves with another fixed pencil. **97k:14023**
Fantechi, Barbara Deformation of Hilbert schemes of points on a surface. (English summary) **97b:14012**
Fujiki, Akira The fixed point set of $\mathbf{C}$ actions on a compact complex space. **97c:32044**
Geramita, Anthony V. (*with* Migliore, Juan C.) Reduced Gorenstein codimension three subschemes of projective space. (English summary) **97h:14068**
Giraldo, Luis (*with* Sols Lucía, Ignacio) Chow forms of congruences. **97h:14069**
Grojnowski, I. Instantons and affine algebras. I. The Hilbert scheme and vertex operators. (English summary) **97f:14041**
Kaddar, Mohamed Classe fondamentale relative en cohomologie de Deligne et application. [Relative fundamental class in Deligne cohomology and application] **97k:32029**
Keem, Changho *see* **Ballico, Edoardo**, **97k:14023**
Lawson, H. Blaine, Jr. Spaces of algebraic cycles. **97m:14006**
Le Potier, Joseph Systèmes cohérents et polynômes de Donaldson. [Coherent systems and Donaldson polynomials] **97j:14013**
Migliore, Juan C. *see* **Geramita, Anthony V.**, **97h:14068**
Miró-Roig, Rosa M. Singular moduli spaces of stable vector bundles on $\mathbf{P}^3$. (English summary) **97b:14013**
Nakajima, Hiraku Instantons and affine Lie algebras. (English summary) **97j:17027**
Schreyer, Frank-Olaf Small fields in constructive algebraic geometry. **97h:14050**
Sols Lucía, Ignacio *see* **Giraldo, Luis**, **97h:14069**
Tyurin, A. N. Canonical spin polynomials of an algebraic surface. I. (Russian. Russian summary) **97a:14045**

14C10 Equivalence relations

Items with secondary classifications in 14C10

Kucharz, Wojciech Algebraic equivalence and homology classes of real algebraic cycles. **97e:14009**

14C15 Rational equivalence rings

Barlow, Rebecca Complete intersections and rational equivalence. (English summary) **97d:14006**
Lewis, James D. Generalized Poincaré classes and cubic equivalences. (English summary) **97h:14004**
Saitō, Shūji Finiteness of Chow groups of manifolds over algebraic fields. (Japanese) (*see* **97f:11002**)
Voisin, Claire Sur les groupes de Chow de certaines hypersurfaces. (English and French summaries) [On Chow groups for certain hypersurfaces] **97a:14004**

Items with secondary classifications in 14C15

Franco, Davide (*with* Reina, Cesare) The geometry of the quantum correction for topological σ-models. (English summary) **97d:14007**
Kurano, Kazuhiko A remark on the Riemann-Roch formula on affine schemes associated with Noetherian local rings. (English summary) **97c:14006**
Müller-Stach, Stefan $\mathbf{C}^*$-extensions of tori, higher Chow groups and applications to incidence equivalence relations for algebraic cycles. (English summary) **97e:14010**
Reina, Cesare *see* **Franco, Davide**, **97d:14007**

14C17 Intersection theory

Franco, Davide (*with* Reina, Cesare) The geometry of the quantum correction for topological σ-models. (English summary) **97d:14007**
Miyazaki, Chikashi (*with* Vogel, Wolfgang) Towards a theory of arithmetic degrees. **97f:14003**
Reina, Cesare *see* **Franco, Davide**, **97d:14007**
Saitō, Shūji Motives and filtrations on Chow groups. **97i:14002**
Shi, He Chern classes of algebraic varieties with singularities. (English summary) **97j:14007**
Suwa, Tatsuo Classes de Chern des intersections complètes locales. (English and French summaries) [Chern classes of local complete intersections] **97m:14003**
Vogel, Wolfgang *see* **Miyazaki, Chikashi**, **97f:14003**

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Aluffi, Paolo Singular schemes of hypersurfaces. **97b:14057**
Bloch, Spencer J. (*with* Esnault, Hélène) The coniveau filtration and non-divisibility for algebraic cycles. **97c:14003**

Chang, Mei-Chu Inequidimensionality of Hilbert schemes. (English summary) **97j:14005**
Dutta, S. P. On Chow groups and intersection multiplicity of modules. II. **97m:13046**
Esnault, Hélène *see* **Bloch, Spencer J., 97c:14003**
Fulton, William (*with* Sturmfels, Bernd) Intersection theory on toric varieties. (English summary) **97h:14070**
Izadi, E. The Chow ring of the moduli space of curves of genus 5. **97b:14029**
Jahnel, Jörg Line bundles on arithmetic surfaces and intersection theory. **97e:14034**
Künnemann, Klaus Some remarks on the arithmetic Hodge index conjecture. **97f:14025**
— Higher Picard varieties and the height pairing. (English summary) **97d:14064**
Lee, Min Ho[1] Characteristic classes of Kuga fiber varieties of quaternion type. (English summary) **97b:14051**
Moriwaki, Atsushi Lower bound of self-intersection of dualizing sheaves on arithmetic surfaces with reducible fibres. **97b:14025**
— Hodge index theorem for arithmetic cycles of codimension one. **97c:14024**
Park, Hye Sook Products on the Chow rings for toric varieties. **97h:14073**
Pragacz, Piotr (*with* Ratajski, Jan) A Pieri-type theorem for Lagrangian and odd orthogonal Grassmannians. **97i:14032**
Ratajski, Jan *see* **Pragacz, Piotr, 97i:14032**
Sturmfels, Bernd *see* **Fulton, William, 97h:14070**

14C20 Divisors, linear systems, invertible sheaves

Ballico, Edoardo On curves with special linear systems. (English summary) **97e:14006**
Bauer, Thomas (*with* Szemberg, T.) Primitive higher order embeddings of abelian surfaces. (English summary) **97h:14005**
Beltrametti, Mauro C. (*with* Sommese, Andrew J.) Notes on embeddings of blowups. **97m:14004**
Biancofiore, Aldo (*with* Livorni, E. Laura) The asymptotic behaviour of the set of polarized, negative Kodaira dimension, surfaces as the sectional genus or the degree goes to infinity. **97h:14006**
Birkenhake, Christina Noncomplete linear systems on abelian varieties. (English summary) **97a:14005**
Campillo, Antonio (*with* Gonzalez-Sprinberg, Gérard; Lejeune-Jalabert, Monique) Clusters of infinitely near points. **97k:14004**
de Cataldo, Mark Andrea A. (*with* Palleschi, Marino) A note on threefolds with a hyperplane section of general type. (English summary) **97i:14003**
Chen, Zhi Hua *see* **Yau, Qin, 97d:14013** *and* **97k:14006**
Coppens, Marc Brill-Noether theory for non-special linear systems. **97a:14006**
— Embeddings of general blowing-ups at points. **97d:14008**
Di Rocco, Sandra Projective surfaces with k-very ample line bundles of genus $\leq 3k+1$. (English summary) **97i:14004**
— k-very ample line bundles on del Pezzo surfaces. (English summary) **97h:14007**
Ein, Lawrence Adjoint linear systems. (English summary) **97d:14009**
Fukuda, Shigetaka On base point free theorem. **97f:14004**
Fukuma, Yoshiaki On sectional genus of quasi-polarized manifolds with non-negative Kodaira dimension. (English summary) **97f:14005**
— On polarized surfaces (X, L) with $h^0(L) > 0$, $\kappa(X) = 2$, and $g(L) = q(X)$. (English summary) **97f:14006**
Gonzalez-Sprinberg, Gérard *see* **Campillo, Antonio; et al., 97k:14004**
Harbourne, Brian Anticanonical rational surfaces. (English summary) **97f:14007**
Küchle, Oliver Multiple point Seshadri constants and the dimension of adjoint linear series. (English and French summaries) **97d:14010**
Lanteri, Antonio (*with* Palleschi, Marino; Sommese, Andrew J.) On the discriminant locus of an ample and spanned line bundle. **97h:14008**
Lejeune-Jalabert, Monique Linear systems with infinitely near base conditions and complete ideals in dimension two. (English summary) **97f:14008**
— *see also* **Campillo, Antonio; et al., 97k:14004**
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Martens, Gerriet On curves of odd gonality. **97e:14007**
Matsushita, Daisuke Effective base point freeness. (English summary) **97i:14005**
Mendes Lopes, Margarida Adjoint systems on surfaces. (Italian summary) **97d:14011**
Nakamaye, Michael Seshadri constants on abelian varieties. (English summary) **97k:14005**
Nakamura, Shu[2] On the third adjoint contractions. **97a:14007**
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Russo, Francesco On the complement of a nef and big divisor on an algebraic variety. **97h:14009**
Sommese, Andrew J. *see* **Lanteri, Antonio; et al., 97h:14008** *and* **Beltrametti, Mauro C., 97m:14004**
Szemberg, T. *see* **Bauer, Thomas, 97h:14005**
Tsuji, Hajime Global generation of adjoint bundles. **97g:14004**
Xu, Geng On the complement of a generic curve in the projective plane. (English summary) **97d:14012**
— On Bertini's theorem. (English summary) **97a:14008**
Yau, Qin (*with* Chen, Zhi Hua) Projective normality of special line bundles on complex projective curves. (Chinese. Chinese summary) **97d:14013**
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Alzati, Alberto (*with* Bertolini, Marina; Besana, Gian Mario) Numerical criteria for very ampleness of divisors on projective bundles over an elliptic curve. (English summary) **97k:14032**
Angehrn, Urban (*with* Siu, Yum-Tong) Effective freeness and point separation for adjoint bundles. **97b:32036**
Ballico, Edoardo On the pole placement problem for linear systems of arbitrary genus. (English summary) **97k:14033**
— (*with* Keem, Changho) On plane curves with several singular points with high multiplicity. (English summary) **97a:14025**
Basili, Bénédicte Indice de Clifford des intersections complètes de l'espace. (English and French summaries) [Clifford index of complete intersections in space] **97f:14048**
Bauer, Thomas (*with* Szemberg, T.) On tensor products of ample line bundles on abelian varieties. **97j:14049**
Beauville, Arnaud Vector bundles on curves and generalized theta functions: recent results and open problems. (English summary) **97h:14015**
Beltrametti, Mauro C. (*with* Sommese, Andrew J.) On the second adjunction mapping. The case of a 1-dimensional image. **97j:14043**
Bertolini, Marina *see* **Alzati, Alberto; et al., 97k:14032**
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Brivio, Sonia (*with* Verra, Alessandro) The theta divisor of $SU_C(2, 2d)^s$ is very ample if C is not hyperelliptic. **97e:14017**
Chel'tsov, I. Three-dimensional algebraic varieties that have a divisor with a numerically trivial canonical class. (Russian) **97b:14048**
Chen, Jungkai Alfred On genera of smooth curves in higher-dimensional varieties. (English summary) **97j:14037**
Demailly, Jean-Pierre Effective bounds for very ample line bundles. (English summary) **97a:32035**
Elizondo, E. Javier The ring of global sections of multiples of a line bundle on a toric variety. (English summary) **97m:14048**
Keem, Changho *see* **Ballico, Edoardo, 97a:14025**
Küchle, Oliver Ample line bundles on blown up surfaces. **97a:14041**
— Some properties of Fano manifolds that are zeros of sections in homogeneous vector bundles over Grassmannians. (English summary) **97k:14042**
Lanteri, Antonio (*with* Tonoli, Fabio) Ruled surfaces with small class. (English summary) **97j:14042**
Laterveer, Robert Linear systems on toric varieties. (English summary) **97g:14036**
Lipman, Joseph Adjoints and polars of simple complete ideals in two-dimensional regular local rings. **97a:13030**
Michelacakis, N. J. On the Picard group of a compact flat projective variety. (English summary) **97a:14039**
Rahavandrainy, Olivier Quelques composantes des strates de Brill-Noether de $\mathrm{Hilb}_N \mathbf{P}^2$. (English and French summaries) [Some irreducible components of Brill-Noether strata of $\mathrm{Hilb}_N \mathbf{P}^2$] **97b:14006**
Siu, Yum-Tong Effective very ampleness. **97a:32036**
— *see also* **Angehrn, Urban, 97b:32036**
Sommese, Andrew J. *see* **Beltrametti, Mauro C., 97j:14043**
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Zhang, Qi On projective manifolds with nef anticanonical bundles. **97m:14039**

14C21 Pencils, nets, webs [see also 53A60]

Hénaut, Alain On the linearization problem and some questions for webs in $\mathbf{C}^2$. **97h:14010**

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Hénaut, Alain Systèmes différentiels, nombre de Castelnuovo et rang des tissus de $\mathbf{C}^n$. [Differential systems, Castelnuovo number and rank of webs in $\mathbf{C}^n$] **97b:32042**
Kim, Yonggu Enriques nets of quadrics. **97d:14055**
Martens, Gerriet The gonality of curves on a Hirzebruch surface. **97k:14036**
Ohbuchi, Akira On the construction of a special divisor of some special curve. (English summary) **97d:14038**

14C22 Picard groups

Guralnick, Robert (*with* Jaffe, David B.; Raskind, Wayne; Wiegand, Roger) On the Picard group: torsion and the kernel induced by a faithfully flat map. **97c:14002**
Jaffe, David B. Coherent functors, with application to torsion in the Picard group. (English summary) **97j:14008**
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Wiegand, Roger *see* **Guralnick, Robert; et al., 97c:14002**

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Degtyarev, M. V. Boundedness of the Picard number of the resolution of singularities for Fano SL(2)-varieties. (Russian) **97f:14040**
Jaffe, David B. Functorial structure of units in a tensor product. (English summary) **97a:14014**
Li, Jun[1] Picard groups of the moduli spaces of vector bundles over algebraic surfaces. (English summary) **97e:14019**
Yoshioka, Kōta The Picard group of the moduli space of stable sheaves on a ruled surface. **97h:14023**

14C25 Algebraic cycles

Bloch, Spencer J. (*with* Esnault, Hélène) The coniveau filtration and non-divisibility for algebraic cycles. **97c:14003**
Colliot-Thélène, Jean-Louis L'arithmétique du groupe de Chow des zéro-cycles. [Arithmetic of the Chow group of zero-cycles] **97i:14006**
— (*with* Scheiderer, Claus) Zero-cycles and cohomology on real algebraic varieties. (English and French summaries) **97a:14009**
Esnault, Hélène *see* **Bloch, Spencer J., 97c:14003**
Fakhruddin, Najmuddin Algebraic cycles on generic abelian varieties. (English summary) **97e:14008**
Friedlander, Eric M. (*with* Lawson, H. Blaine, Jr.) Duality relating spaces of algebraic cocycles and cycles. (English summary) **97k:14007**
Hanamura, Masaki Mixed motives and algebraic cycles. I. **97d:14014**

Karpenko, N. A. Order of torsion in CH^4 of quadrics. (English summary) **97j:14009**
Kucharz, Wojciech Algebraic equivalence and homology classes of real algebraic cycles. **97e:14009**
Langer, Andreas (*with* Saitō, Shūji) Torsion zero-cycles on the self-product of a modular elliptic curve. **97m:14005**
Lawson, H. Blaine, Jr. Spaces of algebraic cycles: levels of holomorphic approximation. **97f:14009**
— Spaces of algebraic cycles. **97m:14006**
— *see also* **Friedlander, Eric M., 97k:14007**
Lee, Min Ho[1] Hodge cycles on Kuga fiber varieties. (English summary)
Müller-Stach, Stefan C^*-extensions of tori, higher Chow groups and applications to incidence equivalence relations for algebraic cycles. (English summary) **97e:14010**
Saitō, Shūji *see* **Langer, Andreas, 97m:14005**
Scheiderer, Claus *see* **Colliot-Thélène, Jean-Louis, 97a:14009**
Suresh, V. Zero cycles on conic fibrations and a conjecture of Bloch. (English summary) **97m:14007**

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Ballico, Edoardo On the failure cycles for the quadratic normality of a projective variety. (English summary) **97j:14048**
Barlow, Rebecca Complete intersections and rational equivalence. (English summary) **97d:14006**
De Concini, Corrado (*with* Pragacz, Piotr) On the class of Brill-Noether loci for Prym varieties. **97e:14040**
van Geemen, Bert Theta functions and cycles on some abelian fourfolds. **97e:14012**
Green, Mark (*with* Müller-Stach, Stefan) Algebraic cycles on a general complete intersection of high multi-degree of a smooth projective variety. **97b:14008**
Jannsen, Uwe Mixed motives, motivic cohomology, and Ext-groups. **97j:14022**
Kahn, Bruno Lower $\mathscr{K}$-cohomology of higher-dimensional quadrics. **97a:14017**
Karpenko, N. A. Grothendieck Chow motives of Severi-Brauer varieties. (Russian. Russian summary) **97b:14011**
Lawson, H. Blaine, Jr. (*with* Lima-Filho, Paulo; Michelsohn, Marie-Louise) Algebraic cycles and equivariant cohomology theories. **97i:55022**
Lewis, James D. Generalized Poincaré classes and cubic equivalences. (English summary) **97h:14004**
— The Hodge conjecture for a certain class of singular varieties. **97j:14010**
Lima-Filho, Paulo *see* **Lawson, H. Blaine, Jr.; et al., 97i:55022**
Mandal, Satyagopal (*with* Sridharan, Raja) Euler classes and complete intersections. **97m:13016**
Michelsohn, Marie-Louise *see* **Lawson, H. Blaine, Jr.; et al., 97i:55022**
Müller-Stach, Stefan *see* **Green, Mark, 97b:14008**
Murre, J. P. Introduction to the theory of motives. (Italian summary) **97i:14018**
Parimala, Raman Study of quadratic forms—some connections with geometry. (English summary) **97e:11049**
Pragacz, Piotr *see* **De Concini, Corrado, 97e:14040**
Saitō, Shūji Motives and filtrations on Chow groups. **97i:14002**
Spandaw, Jeroen G. A Noether-Lefschetz theorem for vector bundles. (English summary) **97d:14061**
Sridharan, Raja *see* **Mandal, Satyagopal, 97m:13016**
Suslin, A. A. (*with* Voevodsky, Vladimir) Singular homology of abstract algebraic varieties. **97e:14030**
Voevodsky, Vladimir *see* **Suslin, A. A., 97e:14030**
Voisin, Claire Remarks on zero-cycles of self-products of varieties. **97e:14013**
Zhang, Shouwu Heights and reductions of semi-stable varieties. **97m:14027**

14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

André, Yves[1] On the Shafarevich and Tate conjectures for hyper-Kähler varieties. **97a:14010**
Balaji, V. The Hodge conjecture for certain moduli varieties. (English summary) **97h:14011**
Bertin, José (*with* Demailly, Jean-Pierre; Illusie, Luc; Peters, Chris) ★ Introduction à la théorie de Hodge. (French. English and French summaries) [Introduction to Hodge theory] **97e:14011**
Demailly, Jean-Pierre *see* **Bertin, José; et al., 97e:14011**
van Geemen, Bert Theta functions and cycles on some abelian fourfolds. **97e:14012**
Green, Mark (*with* Müller-Stach, Stefan) Algebraic cycles on a general complete intersection of high multi-degree of a smooth projective variety. **97b:14008**
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— *see also* **Bertin, José; et al., 97e:14011**
Lewis, James D. The Hodge conjecture for a certain class of singular varieties. **97j:14010**
Müller-Stach, Stefan *see* **Green, Mark, 97b:14008**
Peters, Chris *see* **Bertin, José; et al., 97e:14011**
Rossi, Michele The infinitesimal and generalized Hodge conjecture for some families of sextic threefolds. (English summary) **97b:14009**
Shimada, Ichiro Grothendieck's generalized Hodge conjecture for certain Fano varieties. (English summary) **97k:14008**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Hodge groups of abelian varieties with purely multiplicative reduction. (English summary) **97f:14010**
Tankeev, S. G. Some remarks about the general Hodge conjecture. **97g:14005**
Tsuboi, Syōji Cubic hyper-equisingular families of complex projective varieties. I, II. **97b:14010**
Voisin, Claire Remarks on zero-cycles of self-products of varieties. **97e:14013**
Zarkhin, Yu. G. *see* **Silverberg, Alice, 97f:14010**

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Barlow, Rebecca Complete intersections and rational equivalence. (English summary) **97d:14006**
Cheah, Jan On the cohomology of Hilbert schemes of points. **97b:14005**
Donagi, Ron (*with* Markman, Eyal) Cubics, integrable systems, and Calabi-Yau threefolds. (English summary) **97f:14039**
Hain, Richard M. Infinitesimal presentations of the Torelli groups. **97k:14024**
Kuramoto, Yoshiyuki A sufficient condition for cohomological descent. (English summary) **97f:55011**
Lasell, Brendon (*with* Ramachandran, Mohan) Observations on harmonic maps and singular varieties. (English summary) **97c:32036**
Lewis, James D. Generalized Poincaré classes and cubic equivalences. (English summary) **97h:14004**
Looijenga, Eduard Stable cohomology of the mapping class group with symplectic coefficients and of the universal Abel-Jacobi map. (English summary) **97g:14026**
Markman, Eyal *see* **Donagi, Ron, 97f:14039**
Miyazaki, Takuya Mixed Hodge structures of Siegel modular varieties and Siegel Eisenstein series. (English summary) **97h:11050**
Ramachandran, Mohan *see* **Lasell, Brendon, 97c:32036**
Saito, Morihiko Admissible normal functions. **97c:14044**
Saitō, Shūji Motives and filtrations on Chow groups. **97i:14002**
Spandaw, Jeroen G. A Noether-Lefschetz theorem for vector bundles. (English summary) **97d:14061**
Tankeev, S. G. Cycles on abelian varieties, and exceptional numbers. (Russian. Russian summary) **97f:14045**

14C34 Torelli problem [see also 32G20]

Items with secondary classifications in 14C34

Ciliberto, Ciro (*with* Lopez, Angelo Felice; Miranda, Rick) On the corank of Gaussian maps for general embedded $K3$ surfaces. (English summary) **97e:14049**
Lopez, Angelo Felice *see* **Ciliberto, Ciro; et al., 97e:14049**
Miranda, Rick *see* **Ciliberto, Ciro; et al., 97e:14049**

14C35 Applications of methods of algebraic K-theory [see also 14F05, 19Exx]

Barbieri-Viale, L. (*with* Pedrini, C.; Weibel, Charles A.) Roitman's theorem for singular complex projective surfaces. **97c:14004**
Karpenko, N. A. Grothendieck Chow motives of Severi-Brauer varieties. (Russian. Russian summary) **97b:14011**
— On topological filtration for triquaternion algebra. (English summary) **97c:14005**
Pedrini, C. *see* **Barbieri-Viale, L.; et al., 97c:14004**
Weibel, Charles A. *see* **Barbieri-Viale, L.; et al., 97c:14004**

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Hanamura, Masaki Mixed motives and algebraic cycles. I. **97d:14014**
Kimura, Ken-Ichiro K_2 of a Fermat quotient and the value of its L-function. (English summary) **97h:19011**
Levine, Marc Tate motives and the vanishing conjectures for algebraic K-theory. (English summary) **97e:19008**
— Homology of algebraic varieties: an introduction to the works of Suslin and Voevodsky. **97m:14025**
Nenashev, A. Yu. Simplicial determinant maps and the second term of weight filtrations. **97c:19004**
Srinivas, Vasudevan ★ Algebraic K-theory. (English summary) **97c:19001**
Suwa, Noriyuki A note on Gersten's conjecture for logarithmic Hodge-Witt sheaves. (English summary) **97d:14030**

14C40 Riemann-Roch theorems [see also 19E20, 19L10]

Blache, Raimund Riemann-Roch theorem for normal surfaces and applications. **97h:14012**
— Chern classes and Hirzebruch-Riemann-Roch theorem for coherent sheaves on complex-projective orbifolds with isolated singularities. **97d:14015**
Kurano, Kazuhiko A remark on the Riemann-Roch formula on affine schemes associated with Noetherian local rings. (English summary) **97c:14006**

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Nakashima, Tohru Singularity of the moduli space of stable bundles on surfaces. **97d:14018**
Roessler, Damien Un théorème d'Adams-Riemann-Roch en géométrie d'Arakelov. (English and French summaries) [An Adams-Riemann-Roch theorem in Arakelov geometry] **97b:14026**
Wang, Lih-Chung Stability in Gromov-Shubin index theorem. (English summary) **97g:58164**

14C99 None of the above, but in this section

Colliot-Thélène, Jean-Louis (*with* Saitō, Shūji) Zéro-cycles sur les variétés p-adiques et groupe de Brauer. [Zero-cycles on p-adic varieties and Brauer group] **97e:14014**
Saitō, Shūji *see* **Colliot-Thélène, Jean-Louis, 97e:14014**

Items with secondary classifications in 14C99

Ballico, Edoardo (*with* Cossidente, Antonio) On zero-dimensional subschemes of scrolls. (English and Italian summaries) **97e:14055**
Cossidente, Antonio *see* **Ballico, Edoardo, 97e:14055**
Yanagawa, Kohji Zero-dimensional schemes and Hilbert functions of Cohen-Macaulay homogeneous domains. (Japanese summary) **97h:13014**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Items with secondary classifications in 14D05

Berglund, Per (*with* Katz, Sheldon H.; Klemm, Albrecht Otto) Mirror symmetry and the moduli space for generic hypersurfaces in toric varieties. (English summary) **97a:32016**
Cima, Anna (*with* Gasull, Armengol; Mañosas, Francesc) Injectivity of polynomial local homeomorphisms of $\mathbf{R}^n$. **97a:58011**
Gasull, Armengol *see* **Cima, Anna; et al., 97a:58011**
Givental', A. B. Equivariant Gromov-Witten invariants. **97e:14015**
Hübl, Reinhold (*with* Yekutieli, Amnon) Adèles and differential forms. **97d:14026**
Iwasaki, Katsunori Geometry of Fuchsian moduli spaces. **97f:32022**
Katz, Sheldon H. *see* **Berglund, Per; et al., 97a:32016**
Klemm, Albrecht Otto (*with* Lian, Bong H.; Roan, Shi-shyr; Yau, Shing-Tung) A note on ODEs from mirror symmetry. (English summary) **97h:32032**
— *see also* **Berglund, Per; et al., 97a:32016**
Lian, Bong H. (*with* Yau, Shing-Tung) Mirror symmetry, rational curves on algebraic manifolds and hypergeometric series. (English summary) **97a:14060**
— *see also* **Klemm, Albrecht Otto; et al., 97h:32032**
Malgrange, Bernard Connexions méromorphes. II. Le réseau canonique. [Meromorphic connections. II. The canonical lattice] **97h:32060**
Mañosas, Francesc *see* **Cima, Anna; et al., 97a:58011**
Oort, Frans Rational curves in fibers. **97b:14052**
Roan, Shi-shyr *see* **Klemm, Albrecht Otto; et al., 97h:32032**
Tsuboi, Syōji Cubic hyper-equisingular families of complex projective varieties. I, II. **97b:14010**
Voisin, Claire ★ Symétrie miroir. (French. English and French summaries) [Mirror symmetry] **97i:32026**
Yau, Shing-Tung *see* **Lian, Bong H., 97a:14060** *and* **Klemm, Albrecht Otto; et al., 97h:32032**
Yekutieli, Amnon *see* **Hübl, Reinhold, 97d:14026**

14D07 Variation of Hodge structures

Dimca, A. Hodge numbers of hypersurfaces. **97h:14013**
El Zein, Fouad Geometric invariants on cohomology: mixed Hodge structures. (English summary) **97i:14007**
Givental', A. B. Equivariant Gromov-Witten invariants. **97e:14015**

Items with secondary classifications in 14D07

Bertin, José (*with* Demailly, Jean-Pierre; Illusie, Luc; Peters, Chris) ★ Introduction à la théorie de Hodge. (French. English and French summaries) [Introduction to Hodge theory] **97e:14011**
Demailly, Jean-Pierre *see* **Bertin, José; et al., 97e:14011**
Donagi, Ron (*with* Markman, Eyal) Cubics, integrable systems, and Calabi-Yau threefolds. (English summary) **97f:14039**
Fakhruddin, Najmuddin Algebraic cycles on generic abelian varieties. (English summary) **97e:14008**
Hain, Richard M. Torelli groups and geometry of moduli spaces of curves. (English summary) **97d:14036**
Illusie, Luc *see* **Bertin, José; et al., 97e:14011**
Kontsevich, M. L. Homological algebra of mirror symmetry. **97f:32040**
Markman, Eyal *see* **Donagi, Ron, 97f:14039**
Peters, Chris *see* **Bertin, José; et al., 97e:14011**
Saito, Morihiko Admissible normal functions. **97c:14044**
Tsuboi, Syōji Cubic hyper-equisingular families of complex projective varieties. I, II. **97b:14010**
— Locally stable holomorphic maps and their application to a global moduli problem for some kinds of analytic subvarieties. **97m:32030**
Zuo, Kang[1] Kodaira dimension and Chern hyperbolicity of the Shafarevich maps for representations of π_1 of compact Kähler manifolds. **97h:32042**

14D15 Formal methods; deformations [see also 13D10, 14B07, 16S80 32Gxx]

Fantechi, Barbara Deformation of Hilbert schemes of points on a surface. (English summary) **97b:14012**
Ishii, Akira Semi-universal family of reflexive modules over a rational double point of type A. **97h:14014**

Items with secondary classifications in 14D15

Buchweitz, Ragnar-Olaf (*with* Millson, John J.) CR-geometry and deformations of isolated singularities. (English summary) **97g:32045**
Buium, Alexandru An approximation property for Teichmüller points. **97m:14026**
Fantechi, Barbara (*with* Pardini, Rita) On the Hilbert scheme of curves in higher-dimensional projective space. (English summary) **97g:14002**
Millson, John J. *see* **Buchweitz, Ragnar-Olaf, 97g:32045**
Miyajima, Kimio Kuranishi family of strongly pseudo-convex domains. **97g:32015**
Miyaoka, Yoichi Rational curves on algebraic varieties. **97k:14043**
Pardini, Rita *see* **Fantechi, Barbara, 97g:14002**
Ran, Ziv Thickening Calabi-Yau moduli spaces. (English summary) **97i:32020**
Takamura, Shigeru Infinitesimal deformations of complex surfaces with boundary. **97f:32017**

14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13.}

Beauville, Arnaud Vector bundles on curves and generalized theta functions: recent results and open problems. (English summary) **97h:14015**
— Vector bundles on Riemann surfaces and conformal field theory. **97e:14016**
Beilinson, A. A. (*with* Drinfeld, V. G.) Quantization of Hitchin's fibration and Langlands' program. **97m:14008**
Bertin, José Compactification des schémas de Hurwitz. (English and French summaries) [Compactification of Hurwitz schemes] **97c:14007**
Biswas, Indranil (*with* Raina, Ashok K.) Projective structures on a Riemann surface. **97g:14006**
— A remark on Hodge cycles on moduli spaces of rank 2 bundles over curves. **97e:14008**
— (*with* Raghavendra, N.) Canonical generators of the cohomology of moduli of parabolic bundles on curves. **97h:14016**
Brivio, Sonia (*with* Verra, Alessandro) The theta divisor of $SU_C(2,2d)^s$ is very ample if C is not hyperelliptic. **97e:14017**
Cornalba, Maurizio A simple proof of the projectivity of Kontsevich's space of maps. (Italian summary) **97k:14009**
Donagi, Ron (*with* Markman, Eyal) Spectral covers, algebraically completely integrable, Hamiltonian systems, and moduli of bundles. **97h:14017**
(Drézet, Jean-Marc) *see* **Yoshioka, Kōta, 97i:14010**
Drinfeld, V. G. *see* **Beilinson, A. A., 97m:14008**
Ellingsrud, Geir (*with* Le Potier, Joseph; Strømme, Stein A.) Some Donaldson invariants of $\mathbf{CP}^2$. **97j:14011**
Faltings, Gerd Moduli-stacks for bundles on semistable curves. **97d:14016**
van Geemen, Bert (*with* Previato, Emma) On the Hitchin system. **97k:14010**
Gorodentsev, A. (*with* Leenson, M.) How to calculate the correlation function in twisted SYM $N=2$, $N_f=4$ QFT on a projective plane. (English summary) **97m:14009**
Göttsche, Lothar (*with* Huybrechts, D.) Hodge numbers of moduli spaces of stable bundles on $K3$ surfaces. **97d:14017**
— Change of polarization and Hodge numbers of moduli spaces of torsion free sheaves on surfaces. **97h:14018**
Gritsenko, V. A. (*with* Sankaran, G. K.) Moduli of abelian surfaces with a $(1,p^2)$ polarisation. (English summary) **97k:14011**
Han, Frédéric Codimension du schéma des multisauteuses d'un 4- ou 5-instanton. (English and French summaries) [Codimension of the scheme of jumping lines of order 2 for a 4- or 5-instanton] **97c:14009**
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Jeffrey, Lisa C. (*with* Kirwan, Frances C.) Intersection pairings in moduli spaces of holomorphic bundles on a Riemann surface. (English summary) **97i:14008**
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Lafforgue, Laurent Sur la dégénérescence des chtoucas de Drinfeld. (English and French summaries) [On the degeneracy of Drinfel'd's shtukas] **97f:14011**
Laszlo, Yves Local structure of the moduli space of vector bundles over curves. **97j:14012**
Laumon, Gérard (*with* Rapoport, Michael) The Langlands lemma and the Betti numbers of stacks of G-bundles on a curve. **97f:14012**
Leenson, M. *see* **Gorodentsev, A., 97m:14009**
Le Potier, Joseph Module des fibrés semi-stables et fonctions thêta. [Modulus of semistable bundles and theta functions] **97f:14013**
— Systèmes cohérents et polynômes de Donaldson. [Coherent systems and Donaldson polynomials] **97j:14013**
— *see also* **Ellingsrud, Geir; et al., 97j:14011**
Li, Jun[1] The geometry of moduli spaces of vector bundles over algebraic surfaces. **97e:14018**
— Picard groups of the moduli spaces of vector bundles over algebraic surfaces. (English summary) **97e:14019**
Li, Wei-Ping On Donaldson polynomials of rational ruled surfaces. (English summary) **97f:14014**
— (*with* Qin, Zhenbo) Extensions of vector bundles and rationality of certain moduli spaces of stable bundles. **97h:14019**
Maciocia, Antony Gieseker stability and the Fourier-Mukai transform for abelian surfaces. **97g:14007**
Maggesi, Marco $\mathcal{M}_{P^1}(0,2d^2)$ is singular. (English summary) **97b:14014**
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Maruyama, Masaki Construction of moduli spaces of stable sheaves via Simpson's idea. **97h:14020**
Matsuki, Kenji (*with* Wentworth, Richard A.) Mumford-Thaddeus principle on the moduli space of vector bundles on an algebraic surface. **97m:14010**
Miró-Roig, Rosa M. Singular moduli spaces of stable vector bundles on $\mathbf{P}^3$. (English summary) **97b:14013**
— (*with* Orus-Lacort, Javier A.) On the smoothness of the moduli space of mathematical instanton bundles. (English summary) **97m:14011**
Mochizuki, Shinichi A theory of ordinary p-adic curves. (*see* **97f:11002**)
Nakashima, Tohru Singularity of the moduli space of stable bundles on surfaces. **97d:14018**
Nitsure, Nitin (*with* Sabbah, Claude) Moduli of pre-$\mathscr{D}$-modules, perverse sheaves and the Riemann-Hilbert morphism. I. **97h:14021**
Orus-Lacort, Javier A. *see* **Miró-Roig, Rosa M., 97m:14011**
Oxbury, W. M. (*with* Pauly, Christian) SU(2)-Verlinde spaces as theta spaces on Pryms. **97f:14009**
Pauly, Christian Espaces de modules de fibrés paraboliques et blocs conformes. [Moduli spaces of parabolic bundles and conformal blocks] **97h:14022**
— *see also* **Oxbury, W. M., 97f:14009**
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Ramadas, T. R. Factorisation of generalised theta functions. II. The Verlinde formula. (English summary) **97j:14014**
Ran, Ziv On the local geometry of moduli spaces of locally free sheaves. **97g:14008**
Rapoport, Michael *see* **Laumon, Gérard, 97f:14012**
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Scheinost, Peter (*with* Schottenloher, Martin) Metaplectic quantization of the moduli spaces of flat and parabolic bundles. **97m:14012**
Schottenloher, Martin *see* **Scheinost, Peter, 97m:14012**

Stromme, Stein A. *see* **Ellingsrud, Geir; et al., 97j:14011**
Tan, Xiao Jiang The classification of $\omega_{2,2g/3+2}^2$. (Chinese. English and Chinese summaries) **97a:14011**
Verra, Alessandro *see* **Brivio, Sonia, 97e:14017**
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Yoshioka, Kōta Numbers of $\mathbf{F}_q$-rational points of the moduli of stable sheaves on elliptic surfaces. **97d:14019**
— Chamber structure of polarizations and the moduli of stable sheaves on a ruled surface. **97d:14020**
— A note on a paper of J.-M. Drézet on the local factoriality of some moduli spaces: "Points non factoriels des variétés de modules de faisceaux semi-stables sur une surface rationnelle" [J. Reine Angew. Math. **413** (1991), 99–126; MR 92d:14009]. **97i:14010**
— The Picard group of the moduli space of stable sheaves on a ruled surface. **97h:14023**
— Betti numbers of moduli of stable sheaves on some surfaces. **97g:14009**
Zagier, Don On the cohomology of moduli spaces of rank two vector bundles over curves. **97g:14010**

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Aprodu, Marian (*with* Brînzănescu, Vasile) Fibrés vectoriels de rang 2 sur les surfaces réglées. (English and French summaries) [Vector bundles of rank 2 on ruled surfaces] **97e:14056**
(Arnol'd, V. I.) *see* **Atiyah, Michael Francis, 97c:57005**
Atiyah, Michael Francis ★ Геометрия и физика узлов. (Russian. Russian summary) [The geometry and physics of knots] **97c:57005**
Balaji, V. The Hodge conjecture for certain moduli varieties. (English summary) **97h:14011**
Bauer, Stefan (*with* Pidstrigach, V. Ya.) Spin polynomial invariants for Dolgachev surfaces. (English summary) **97g:57039**
Beauville, Arnaud Conformal blocks, fusion rules and the Verlinde formula. (English summary) **97f:17025**
Biquard, Olivier Sur les fibrés paraboliques sur une surface complexe. [On parabolic bundles over a complex surface] **97b:32038**
Brînzănescu, Vasile *see* **Aprodu, Marian, 97e:14056**
Brylinski, Jean-Luc (*with* McLaughlin, Dennis) The geometry of degree-4 characteristic classes and of line bundles on loop spaces. II. **97j:58157**
Chekhov, L. Discretized moduli spaces and matrix models. (English summary) **97k:81130**
Daskalopoulos, Georgios D. (*with* Uhlenbeck, Karen; Wentworth, Richard A.) Moduli of extensions of holomorphic bundles on Kähler manifolds. (English summary) **97a:32033**
— (*with* Wentworth, Richard A.) Factorization of rank two theta functions. II. Proof of the Verlinde formula. **97f:32018**
Ishii, Akira Semi-universal family of reflexive modules over a rational double point of type A. **97h:14014**
de Jong, Aise Johan *see* **Pikaart, M., 97e:14037**
(Leksin, V. N.) *see* **Atiyah, Michael Francis, 97c:57005**
Li, Yingchen (*with* Mulase, Motohico) Hitchin systems and KP equations. **97a:14037**
Löbke, Martin (*with* Teleman, Andrei) ★ The Kobayashi-Hitchin correspondence. **97h:32043**
Maciocia, Antony Generalized Fourier-Mukai transforms. **97g:14013**
(Maruyama, Masaki) *see* **Moduli of vector bundles, 97b:14003**
Masuda, Kayo Moduli of equivariant algebraic vector bundles over affine cones with one-dimensional quotient. **97k:14049**
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Mukai, Shigeru Curves and $K3$ surfaces of genus eleven. (English summary) **97g:14031**
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Nakajima, Hiraku Hyper-Kähler structures on moduli spaces of parabolic Higgs bundles on Riemann surfaces. **97k:32030**
Nasatyr, Emile Ben (*with* Steer, Brian) Orbifold Riemann surfaces and the Yang-Mills-Higgs equations. **97f:32019**
Natanzon, S. M. Moduli spaces of real algebraic supercurves with $N = 2$. (Russian. Russian summary) **97m:14049**
Nekrasov, N. A. Holomorphic bundles and many-body systems. (English summary) **97i:58081**
Pidstrigach, V. Ya. *see* **Bauer, Stefan, 97g:57039**
Pikaart, M. (*with* de Jong, Aise Johan) Moduli of curves with non-abelian level structure. **97e:14037**
(Shcherbak, I. G.) *see* **Atiyah, Michael Francis, 97c:57005**
Steer, Brian *see* **Nasatyr, Emile Ben, 97f:32019**
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Teleman, Constantin Lie algebra cohomology and the fusion rules. (English summary) **97f:17028**
Tyurin, A. N. Canonical spin polynomials of an algebraic surface. I. (Russian. Russian summary) **97a:14045**
Uhlenbeck, Karen *see* **Daskalopoulos, Georgios D.; et al., 97a:32033**
Verbitskiĭ, M. S. Hyper-Kähler embeddings and holomorphic symplectic geometry. I. **97h:53053**
Viehweg, Eckart ★ Quasi-projective moduli for polarized manifolds. **97j:14001**
Wentworth, Richard A. *see* **Daskalopoulos, Georgios D.; et al., 97a:32033** *and* **97f:32018**

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Conference:
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Moduli of vector bundles ★ Moduli of vector bundles. **97b:14003**
Sanda ★ Moduli of vector bundles. **97b:14003**
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14D22 Fine and coarse moduli spaces

Items with secondary classifications in 14D22

Bertin, José Compactification des schémas de Hurwitz. (English and French summaries) [Compactification of Hurwitz schemes] **97c:14007**
Brückmann, Peter A remark on moduli spaces of complete intersections. **97e:14059**
Frenkel, Edward Affine algebras, Langlands duality and Bethe ansatz. **97k:17036**
Genestier, Alain Espaces symétriques de Drinfeld. (French summary) [Drinfel'd symmetric spaces] **97k:14045**
Kontsevich, M. L. Enumeration of rational curves via torus actions. **97d:14077**
Laszlo, Yves Local structure of the moduli space of vector bundles over curves. **97j:14012**
Lee, Yuan-Pin A formula for Euler characteristics of tautological line bundles on the Deligne-Mumford moduli spaces. **97m:14028**
Le Potier, Joseph ★ Fibrés vectoriels sur les courbes algébriques. (French) [Vector bundles over algebraic curves] **97c:14034**
Maruyama, Masaki Construction of moduli spaces of stable sheaves via Simpson's idea. **97h:14020**
Shustin, E. I. Smoothness and irreducibility of families of plane algebraic curves with ordinary singularities. (English summary) **97c:14028**
(Sorger, Christoph) *see* **Le Potier, Joseph, 97c:14034**
Viehweg, Eckart ★ Quasi-projective moduli for polarized manifolds. **97j:14001**

14D25 Geometric invariants [see also 14L30]

Białynicki-Birula, A. (*with* Święcicka, J.) Open subsets of projective spaces with a good quotient by an action of a reductive group. (English summary) **97h:14024**
Faltings, Gerd Mumford-Stabilität in der algebraischen Geometrie. [Mumford stability in algebraic geometry] **97k:14012**
Keel, Seán (*with* Mori, Shigefumi) Quotients by groupoids. **97m:14014**
Kollár, János Quotient spaces modulo algebraic groups. **97m:14013**
Mori, Shigefumi *see* **Keel, Seán, 97m:14014**
Seelinger, George F. A description of the Brauer-Severi scheme of trace rings of generic matrices. (English summary) **97m:14015**
Święcicka, J. *see* **Białynicki-Birula, A., 97h:14024**

Items with secondary classifications in 14D25

Białynicki-Birula, A. (*with* Święcicka, J.) Three theorems on existence of good quotients. **97j:14054**
Brion, Michel (*with* Joshua, Roy) Equivariant intersection cohomology of semi-stable points. (English summary) **97j:14021**
Fujiki, Akira Kähler quotient and equivariant cohomology. **97g:32035**
Joshua, Roy *see* **Brion, Michel, 97j:14021**
Masuda, Kayo Moduli of equivariant algebraic vector bundles over affine cones with one-dimensional quotient. **97k:14049**
Schwarz, Gerald W. Invariant differential operators. **97m:16049**
Święcicka, J. *see* **Białynicki-Birula, A., 97j:14054**
Zhang, Shouwu Heights and reductions of semi-stable varieties. **97m:14027**

14D99 None of the above, but in this section

De Concini, Corrado (*with* Procesi, Claudio) Wonderful models of subspace arrangements. **97k:14013**
— (*with* Procesi, Claudio) Hyperplane arrangements and holonomy equations. **97k:14014**
Procesi, Claudio *see* **De Concini, Corrado, 97k:14013** *and* **97k:14014**

Items with secondary classifications in 14D99

Pecker, Daniel Sur le genre arithmétique des courbes rationnelles. (English and French summaries) [The arithmetical genus of rational curves] **97h:14047**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

Corti, Alessio Recent results in higher-dimensional birational geometry. (English summary) **97e:14020**
Dingoyan, Pascal Fonctions méromorphes sur un ouvert pseudoconcave d'une variété algébrique projective. (English and French summaries) [Meromorphic functions on an open pseudoconcave subset of an algebraic projective variety] **97k:14015**
Dolgopolova, O. B. (*with* Zverovich, É. I.) Uniformization of algebraic correspondences. (Russian) (*see* **97g:00017**)
Iskovskikh, V. A. Factorization of birational mappings of rational surfaces from the point of view of Mori theory. (Russian) **97k:14016**
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14E07 Birational automorphisms, Cremona group and generalizations [see also 32G20]

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14E09 Automorphisms [see also 14J50, 14L27]

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— Simple reasons why injective polynomial endomorphisms are automorphisms. **97m:14018**
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— Polynomial parametrization and étale exoticity. **97i:14012**
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14E15 Global theory of singularities, resolution [see also 14B05, 32S20, 32S45]

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Gonzalez-Sprinberg, Gérard (*with* Lejeune-Jalabert, Monique) Sur l'espace des courbes tracées sur une singularité. [On the space of curves over a singularity] **97g:14014**
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14E20 Coverings, fundamental group (mappings)

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14E22 Ramification problems [see also 11S15]

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14E40 Local structure of maps: étale, flat, etc. [see also 13–XX, 14F20]

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14Fxx (Co)homology theory [see also 13Dxx]

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14F05 Vector bundles, sheaves, related construction [see also 18F20, 32Lxx, 46M20]

Ballico, Edoardo (*with* Wiśniewski, Jarosław A.) On Bănică sheaves and Fano manifolds. (English summary) **97f:14017**
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Nakashima, Tohru (*with* Takeda, Yuichiro) Generalized heights for arithmetic surfaces. **97e:14036**
— Relative vanishing theorems in characteristic p. **97j:14019**
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Pauly, Christian Espaces de modules de fibrés paraboliques et blocs conformes. [Moduli spaces of parabolic bundles and conformal blocks] **97h:14022**

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14F10 Differentials and other special sheaves [see also 32C38]

Berthelot, Pierre $\mathscr{D}$-modules arithmétiques. I. Opérateurs différentiels de niveau fini. (English summary) [Arithmetical $\mathscr{D}$-modules. I. Differential operators of finite level] **97b:14019**
Bøgvad, Rikard Some results on $\mathscr{D}$-modules on Borel varieties in characteristic $p > 0$. **97a:14015**
Hübl, Reinhold (*with* Yekutieli, Amnon) Adèles and differential forms. **97d:14026**
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Altmann, Klaus Torsion of differentials on toric varieties. (English summary) **97c:14050**
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Clozel, L. (*with* Venkataramana, T. N.) Virtual cohomology of the moduli space of curves in the unstable range. **97j:14027**
Cox, David A. Toric residues. **97e:14062**
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Yekutieli, Amnon Some remarks on Beĭlinson adèles. **97b:14022**

14F17 Vanishing theorems [see also 32L20]

Bien, Frédéric (*with* Brion, Michel) Automorphisms and local rigidity of regular varieties. **97h:14034**
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Fukuda, Shigetaka A generalization of the Kawamata-Viehweg vanishing theorem after Reid. **97f:14018**
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Angelini, Flavio An algebraic version of Demailly's asymptotic Morse inequalities. (English summary) **97b:32045**
Gasbarri, Carlo Le théorème d'annulation de Serre pour les variétés arithmétiques. (English and French summaries) [Serre's vanishing theorem for arithmetical varieties] **97c:14023**
Kim, Meeyoung A Barth-Lefschetz type theorem for branched coverings of Grassmannians. **97c:14019**
Kübler, Oliver Some properties of Fano manifolds that are zeros of sections in homogeneous vector bundles over Grassmannians. (English summary) **97k:14042**

14F20 Étale and other Grothendieck topologies and cohomologies

Buch, Anders (*with* Thomsen, Jesper F.; Lauritzen, Niels; Mehta, Vikram) Frobenius morphisms modulo p^2. (English and French summaries) **97b:14020**
Burési, Jérôme Local-global principle for étale cohomology. (English summary) **97a:14016**
Colliot-Thélène, Jean-Louis On the reciprocity sequence in the higher class field theory of function fields. (English summary) **97k:14019**
— *see also* **Kahn, Bruno, 97k:14020**
DeMeyer, Frank (*with* Regnier, Kimberly) Étale cohomology of toric varieties defined by infinite fans. (English summary) **97d:14027**
Fujiwara, Kazuhiro Theory of tubular neighborhood in étale topology. **97d:14028**
Kahn, Bruno Résultats de "pureté" pour les variétés lisses sur un corps fini. (English summary) ["Purity" results for smooth varieties over a finite field] **97k:14020**
— Lower $\mathscr{K}$-cohomology of higher-dimensional quadrics. **97a:14017**
Katz, Nicholas M. ★ Rigid local systems. **97e:14027**
Lauritzen, Niels *see* **Buch, Anders; et al., 97b:14020**
Mehta, Vikram *see* **Buch, Anders; et al., 97b:14020**
Nakayama, Chikara Duality in log étale cohomology. (Japanese) (*see* **97f:11002**)
Regnier, Kimberly *see* **DeMeyer, Frank, 97d:14027**
Scheiderer, Claus Hasse principles and approximation theorems for homogeneous spaces over fields of virtual cohomological dimension one. (English summary) **97f:14019**
Thomsen, Jesper F. *see* **Buch, Anders; et al., 97b:14020**

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Annals of Mathematics Studies *see* **Katz, Nicholas M., 97e:14027**

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Berkovich, Vladimir G. Vanishing cycles for non-Archimedean analytic spaces. **97e:32037**
Bloch, Spencer J. (*with* Esnault, Hélène) The coniveau filtration and non-divisibility for algebraic cycles. **97c:14003**
Bosch, Siegfried (*with* Xarles, Xavier) Component groups of Néron models via rigid uniformization. **97f:14022**
Brewer, James W. (*with* Ford, T. J.; Klingler, Lee; Schmale, W.) When does the ring $K[y]$ have the coefficient assignment property? (English summary) **97g:13014**
Colliot-Thélène, Jean-Louis (*with* Scheiderer, Claus) Zero-cycles and cohomology on real algebraic varieties. (English and French summaries) **97a:14009**
Crew, Richard The differential Galois theory of regular singular p-adic differential equations. **97g:14018**
Deninger, Christopher Isogenies of abelian varieties with multiplications and Fitting ideals. **97h:14061**
Esnault, Hélène *see* **Bloch, Spencer J., 97c:14003**
Ford, T. J. *see* **Brewer, James W.; et al., 97g:13014**
Gouvêa, Fernando Q. (*with* Yui, Noriko) ★ Arithmetic of diagonal hypersurfaces over finite fields. (English summary) **97k:11095**
— (*with* Yui, Noriko) "Brauer numbers" of twisted Fermat motives. **97k:11094**
Guralnick, Robert (*with* Jaffe, David B.; Raskind, Wayne; Wiegand, Roger) On the Picard group: torsion and the kernel induced by a faithfully flat map. **97c:14002**
Jaffe, David B. Functorial structure of units in a tensor product. (English summary) **97a:14014**
— *see also* **Guralnick, Robert; et al., 97c:14002**
Jannsen, Uwe Mixed motives, motivic cohomology, and Ext-groups. **97j:14022**
de Jong, Aise Johan *see* **Oort, Frans, 97j:14052**
Karpenko, N. A. Order of torsion in CH^4 of quadrics. (English summary) **97j:14009**
Klingler, Lee *see* **Brewer, James W.; et al., 97g:13014**
Krasnov, V. A. Applications of equivariant cohomology theory in real algebraic geometry. (Russian) **97e:14069**
Laumon, Gérard (*with* Rapoport, Michael) The Langlands lemma and the Betti numbers of stacks of G-bundles on a curve. **97f:14012**
Mestre, Jean-François Annulation, par changement de variable, d'éléments de $\mathrm{Br}_2(k(x))$ ayant cinq pôles. (English and French summaries) [Base change killing of elements of $\mathrm{Br}_2(k(x))$ with five poles] **97e:13001**
— Annulation, par changement de variable, d'éléments de $\mathrm{Br}_2(k(x))$, où k est un corps fini. (English and French summaries) [Base change killing of elements of $\mathrm{Br}_2(k(x))$, k a finite field] **97e:13002**
Michel, Philippe Autour de la conjecture de Sato-Tate pour les sommes de Kloosterman. I. [On the Sato-Tate conjecture for Kloosterman sums. I] **97k:11118**
Murre, J. P. Introduction to the theory of motives. (Italian summary) **97i:14018**
Ogus, Arthur F-crystals on schemes with constant log structure. (English summary) **97g:14019**
Oort, Frans (*with* de Jong, Aise Johan) Hyperelliptic curves in abelian varieties. **97j:14052**
Rapoport, Michael *see* **Laumon, Gérard, 97f:14012**
Raskind, Wayne *see* **Guralnick, Robert; et al., 97c:14002**
Scheiderer, Claus *see* **Colliot-Thélène, Jean-Louis, 97a:14009**
Schmale, W. *see* **Brewer, James W.; et al., 97g:13014**
Schmidt, Alexander Extensions with restricted ramification and duality for arithmetic schemes. **97b:14027**
— An arithmetic site for the rings of integers of algebraic number fields. **97b:11133**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Variations on a theme of Minkowski and Serre. (English summary) **97c:11065**
Spieß, Michael Artin-Verdier duality for arithmetic surfaces. **97i:14019**
Suslin, A. A. (*with* Voevodsky, Vladimir) Singular homology of abstract algebraic varieties. **97e:14030**
Voevodsky, Vladimir *see* **Suslin, A. A., 97e:14030**
Volovich, I. V. From p-adic strings to étale strings. (Russian) **97e:11162**
Wiegand, Roger *see* **Guralnick, Robert; et al., 97c:14002**
Xarles, Xavier *see* **Bosch, Siegfried, 97f:14022**
Yui, Noriko *see* **Gouvêa, Fernando Q., 97k:11094** *and* **97k:11095**
Zarkhin, Yu. G. *see* **Silverberg, Alice, 97c:11065**

14F25 Classical real and complex cohomology

Chéniot, D. Vanishing cycles in a pencil of hyperplane sections of a non-singular quasi-projective variety. **97a:14018**
Kim, Meeyoung A Barth-Lefschetz type theorem for branched coverings of Grassmannians. **97c:14019**
Sommers, E. The homology of the space of affine flags containing a nilpotent element. (English summary) **97j:14020**

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Brînzănescu, Vasile Torsion of the Neron-Severi group for primary Kodaira surfaces. **97f:14033**
Dolgachev, I. V. Mirror symmetry for lattice polarized $K3$ surfaces. **97i:14024**
Laumon, Gérard (*with* Rapoport, Michael) The Langlands lemma and the Betti numbers of stacks of G-bundles on a curve. **97f:14012**
Looijenga, Eduard Stable cohomology of the mapping class group with symplectic coefficients and of the universal Abel-Jacobi map. (English summary) **97g:14026**
Netsvetaev, N. Yu. Homology and cohomology of hypersurfaces with quadratic singular points in generic position. (English summary) **97c:14041**
Rapoport, Michael *see* **Laumon, Gérard, 97f:14012**
Shi, He Chern classes of algebraic varieties with singularities. (English summary) **97j:14007**
Wallach, Nolan R. On a theorem of Milnor and Thom. **97b:14060**
Zagier, Don On the cohomology of moduli spaces of rank two vector bundles over curves. **97g:14010**

14F30 p-adic cohomology, crystalline cohomology

Berthelot, Pierre Cohérence différentielle des algèbres de fonctions surconvergentes. (English and French summaries) [Differential coherence of overconvergent function algebras] **97g:14017**
Chiarellotto, Bruno (*with* Christol, Gilles) On overconvergent isocrystals and F-isocrystals of rank one. **97b:14021**
Christol, Gilles *see* **Chiarellotto, Bruno, 97b:14021**
Crew, Richard The differential Galois theory of regular singular p-adic differential equations. **97g:14018**
Garnier, Laurent Théorèmes de division sur $\widehat{\mathscr{D}}^{(0)}_{\mathscr{X}\mathbb{Q}}$ et applications. (English and French summaries) [Division theorems over $\widehat{\mathscr{D}}^{(0)}_{\mathscr{X}\mathbb{Q}}$ and applications] **97c:14020**
Le Stum, Bernard La structure de Hyodo-Kato pour les courbes. (French summary) [The Hyodo-Kato structure for curves] **97d:14029**
Matsuda, Shigeki Local indices of p-adic differential operators corresponding to Artin-Schreier-Witt coverings. **97a:14019**
Mokrane, Abdellah Farid Cohomologie cristalline des variétés ouvertes. (English and French summaries) [Crystalline cohomology of open varieties] **97f:14017**
Ogus, Arthur F-crystals on schemes with constant log structure. (English summary) **97g:14019**
Suwa, Noriyuki A note on Gersten's conjecture for logarithmic Hodge-Witt sheaves. (English summary) **97d:14030**
Toki, Keisuke Fermat varieties of Hodge-Witt type. **97d:14031**
Totaro, Burt Tensor products in p-adic Hodge theory. **97d:14032**
Tsuzuki, Nobuo The overconvergence of morphisms of étale φ-∇-spaces on a local field. **97m:14024**
Wan, Da Qing Meromorphic continuation of L-functions of p-adic representations. **97c:14021**

Items with secondary classifications in 14F30

Baldassarri, Francesco Special values of symmetric hypergeometric functions. **97a:11188**
Berthelot, Pierre $\mathscr{D}$-modules arithmétiques. I. Opérateurs différentiels de niveau fini. (English summary) [Arithmetical $\mathscr{D}$-modules. I. Differential operators of finite level] **97b:14019**
Deninger, Christopher Isogenies of abelian varieties with multiplications and Fitting ideals. **97h:14061**
Edixhoven, Bas Simplicity of Frobenius eigenvalues in the Galois representations associated to modular forms. (English summary) **97h:11057**
Garnier, Laurent Correspondance de Katz et irrégularité des isocristaux surconvergents de rang un. [Katz correspondence and irregularity of rank-one overconvergent isocrystals] **97c:12006**
de Jong, Aise Johan Crystalline Dieudonné module theory via formal and rigid geometry. **97f:14047**
Rapoport, Michael (*with* Zink, Th.) ★ Period spaces for p-divisible groups. **97f:14023**
Taguchi, Yuichiro (*with* Wan, Da Qing) Entireness of L-functions of φ-sheaves on affine complete intersections. (English summary) **97m:11080**
Wan, Da Qing *see* **Taguchi, Yuichiro, 97m:11080**
Zink, Th. *see* **Rapoport, Michael, 97f:14023**

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Annals of Mathematics Studies *see* **Rapoport, Michael, 97f:14023**

14F32 Intersection (co)homology [see also 32S60]

Brion, Michel (*with* Joshua, Roy) Equivariant intersection cohomology of semi-stable points. (English summary) **97j:14021**
Gelfand, Sergei I. (*with* MacPherson, Robert; Vilonen, Kari) Perverse sheaves and quivers. (English summary) **97e:14028**
Joshua, Roy The intersection cohomology and derived category of algebraic stacks. (English summary) **97a:14020**
— *see also* **Brion, Michel, 97j:14021**
MacPherson, Robert *see* **Gelfand, Sergei I.; et al., 97e:14028**
Vilonen, Kari *see* **Gelfand, Sergei I.; et al., 97e:14028**

Items with secondary classifications in 14F32

Ohsawa, Takeo Applications of L^2 estimates in complex geometry. (Japanese) **97h:32041**

14F35 Homotopy theory; fundamental groups [see also 14E20, 14H30]

Cutkosky, Steven Dale Simple connectedness of projective varieties. (English summary) **97e:14029**
Shimada, Ichiro A generalization of Lefschetz-Zariski theorem on fundamental groups of algebraic varieties. (English summary) **97h:14036**
Simpson, Carlos T. Homotopy over the complex numbers and generalized de Rham cohomology. **97f:14020**

Items with secondary classifications in 14F35

Amorós, Jaume (*with* Burger, Marc; Corlette, Kevin; Kotschick, D.; Toledo, Domingo) ★ Fundamental groups of compact Kähler manifolds. (English summary) **97d:32037**
— On the Malcev completion of Kähler groups. **97g:32034**
Burger, Marc *see* **Amorós, Jaume; et al., 97d:32037**
Corlette, Kevin *see* **Amorós, Jaume; et al., 97d:32037**
Hamm, Helmut A. Affine varieties and Lefschetz theorems. **97h:14035**
Kotschick, D. *see* **Amorós, Jaume; et al., 97d:32037**
Lawson, H. Blaine, Jr. Spaces of algebraic cycles: levels of holomorphic approximation. **97f:14009**
Miyazaki, Takuya Mixed Hodge structures of Siegel modular varieties and Siegel Eisenstein series. (English summary) **97h:11050**
Toledo, Domingo *see* **Amorós, Jaume; et al., 97d:32037**

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Yekutieli, Amnon Some remarks on Beĭlinson adèles. **97b:14022**

Items with secondary classifications in 14F40

Aleksandrov, Aleksandr G. A formula of Hirzebruch and its generalizations. (English summary) **97c:32048**
Aomoto, Kazuhiko Connection formulas in the q-analog de Rham cohomology. **97g:32017**
Berthelot, Pierre Cohérence différentielle des algèbres de fonctions surconvergentes. (English and French summaries) [Differential coherence of overconvergent function algebras] **97g:14017**
Biswas, Indranil A remark on Hodge cycles on moduli spaces of rank 2 bundles over curves. **97c:14008**
Hübl, Reinhold (*with* Yekutieli, Amnon) Adèles and differential forms. **97d:14026**
Kaddar, Mohamed Classe fondamentale relative en cohomologie de Deligne et application. [Relative fundamental class in Deligne cohomology and application] **97k:32029**
Lee, Ki-Suk (*with* Terao, Hiroaki) The logarithmic forms of k-generic arrangements. **97j:32032**
Liu, Kefeng Holomorphic equivariant cohomology. **97f:32041**
Nakashima, Tohru Relative vanishing theorems in characteristic p. **97j:14019**
Ogus, Arthur F-crystals on schemes with constant log structure. (English summary) **97g:14019**
Piltant, Olivier Frobenius pour les sommes de Selberg. [Frobenius for Selberg sums] **97a:11128**
Sabbah, Claude On the comparison theorem for elementary irregular $\mathscr{D}$-modules. **97h:32017**
Simpson, Carlos T. Homotopy over the complex numbers and generalized de Rham cohomology. **97f:14020**
Terao, Hiroaki *see* **Lee, Ki-Suk, 97j:32032**
Wiens, Jonathan (*with* Yuzvinsky, Sergey) De Rham cohomology of logarithmic forms on arrangements of hyperplanes. (English summary) **97h:52013**
Yekutieli, Amnon *see* **Hübl, Reinhold, 97d:14026**
Yuzvinsky, Sergey *see* **Wiens, Jonathan, 97h:52013**

14F45 Topological properties

Oka, Mutsuo[1] A Lefschetz type theorem in a torus. (English summary) **97b:14023**

Items with secondary classifications in 14F45

Reed, David L. The topology of conjugate varieties. **97e:11068**
Shimada, Ichiro A generalization of Lefschetz-Zariski theorem on fundamental groups of algebraic varieties. (English summary) **97h:14036**
Shustin, E. I. Smoothness of equisingular families of plane algebraic curves. **97j:14031**

14F99 None of the above, but in this section

Jannsen, Uwe Mixed motives, motivic cohomology, and Ext-groups. **97j:14022**
Levine, Marc Homology of algebraic varieties: an introduction to the works of Suslin and Voevodsky. **97m:14025**
Matsuda, Shigeki Swan conductors in positive characteristics. (Japanese) (*see* **97f:11002**)
Murre, J. P. Introduction to the theory of motives. (Italian summary) **97i:14018**
Oaku, Toshinori Gröbner bases for D-modules on a non-singular affine algebraic variety. (English summary) **97h:14037**
Saitô, Shôji On motives. (Japanese) (*see* **97f:11002**)
Suslin, A. A. (*with* Voevodsky, Vladimir) Singular homology of abstract algebraic varieties. **97e:14030**
Voevodsky, Vladimir *see* **Suslin, A. A., 97e:14030**

Items with secondary classifications in 14F99

Buraggina, A. The intermediate cohomology modules of a rank two vector bundle on $\mathbf{P}^3$ are not split. (English summary) **97k:14044**
Christol, Gilles *see* **Robba, Philippe, 97g:12005**
Douai, Jean-Claude Espaces homogènes et arithmétique des schémas en groupes réductifs sur les anneaux de Dedekind. (French summary) [Homogeneous spaces and arithmetic of reductive group schemes over Dedekind rings] **97j:14058**
Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**
Mebkhout, Z. Le polygone de Newton d'un $\mathscr{D}_X$-module. [The Newton polygon of a $\mathscr{D}_X$-module] **97h:32015**
Robba, Philippe (*with* Christol, Gilles) ★ Équations différentielles p-adiques. (French. French summary) [p-adic differential equations] **97g:12005**
Swan, Richard G. Hochschild cohomology of quasiprojective schemes. (English summary) **97j:19003**
Totaro, Burt Configuration spaces of algebraic varieties. (English summary) **97g:57033**

14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rationality questions, rational points

Abramovich, Dan (*with* Voloch, José Felipe) Lang's conjectures, fibered powers, and uniformity. (English summary) **97e:14031**
Baragar, Arthur Rational points on $K3$ surfaces in $\mathbf{P}^1 \times \mathbf{P}^1 \times \mathbf{P}^1$. **97g:14020**
Batyrev, V. V. (*with* Tschinkel, Yu.) Rational points of bounded height on compactifications of anisotropic tori. **97a:14021**
— (*with* Tschinkel, Yu.) Rational points on some Fano cubic bundles. (English and French summaries) **97j:14023**

Bertrand, Daniel Points rationnels sur les sous-groupes compacts des groupes algébriques. (English and French summaries) [Rational points on compact subgroups of algebraic groups] **97h:14038**
Caporaso, Lucia (*with* Harris, Joseph Daniel; Mazur, Barry) Uniformity of rational points. **97d:14033**
Harris, Joseph Daniel *see* **Caporaso, Lucia; et al., 97d:14033**
Manin, Yurii Ivanovich Problems on rational points and rational curves on algebraic varieties. **97a:14022**
Mazur, Barry *see* **Caporaso, Lucia; et al., 97d:14033**
Tschinkel, Yu. *see* **Batyrev, V. V., 97a:14021** *and* **97j:14023**
Tsfasman, M. A. Nombre de points des surfaces sur un corps fini. (English and French summaries) [Number of points of surfaces over a finite field] **97g:14021**
Voloch, José Felipe *see* **Abramovich, Dan, 97e:14031**
Wang, Lan² Rational points and canonical heights on $K3$-surfaces in $\mathbf{P}^1 \times \mathbf{P}^1 \times \mathbf{P}^1$. (English summary) **97a:14023**

Items with secondary classifications in 14G05

Batyrev, V. V. (*with* Tschinkel, Yu.) Rational points on toric varieties. (English summary) **97d:11103**
Caporaso, Lucia (*with* Harris, Joseph Daniel; Mazur, Barry) How many rational points can a curve have? **97d:11099**
Coray, Daniel (*with* Manoil, Constantin) On large Picard groups and the Hasse principle for curves and $K3$ surfaces. **97j:14038**
de Diego, Teresa Théorème de Faltings (conjecture de Mordell) pour les familles algébriques de courbes. (English and French summaries) [Faltings' theorem (Mordell's conjecture) for algebraic families of curves] **97k:11096**
Flynn, E. V. On a theorem of Coleman. (English summary) **97b:11082**
— A flexible method for applying Chabauty's theorem. (English summary) **97m:11083**
Fujiwara, Masahiko Distribution of integral points on varieties. (Japanese) **97g:11034**
van der Geer, Gerard (*with* van der Vlugt, Marcel) Quadratic forms, generalized Hamming weights of codes and curves with many points. (English summary) **97i:11068**
Harris, Joseph Daniel *see* **Caporaso, Lucia; et al., 97d:11099**
Hassett, Brendan Correlation for surfaces of general type. **97i:14025**
Leep, David B. (*with* Yeomans, Charles C.) Nonsingular zeros of quintic forms over finite fields. (English summary) **97k:11063**
Manoil, Constantin *see* **Coray, Daniel, 97j:14038**
Mazur, Barry *see* **Caporaso, Lucia; et al., 97d:11099**
Ru, Min Geometric and arithmetic aspects of $\mathbf{P}^n$ minus hyperplanes. **97e:32031**
Satgé, Ph. Questions arithmétiques liées au théorème de Poncelet. [Arithmetical questions associated with the Poncelet theorem] **97b:14033**
Stahlke, Colin Algebraic curves over $\mathbf{Q}$ with many rational points and minimal automorphism group. **97k:11098**
Swinnerton-Dyer, H. P. F. Rational points on certain intersections of two quadrics. **97h:11099**
Tate, John (*with* Voloch, José Felipe) Linear forms in p-adic roots of unity. **97h:11065**
Tschinkel, Yu. *see* **Batyrev, V. V., 97d:11103**
Tzermias, Pavlos Torsion points on Fermat Jacobians. **97j:11029**
— Mordell-Weil groups of the Jacobian of the 5th Fermat curve. (English summary) **97e:11076**
van der Vlugt, Marcel *see* **van der Geer, Gerard, 97i:11068**
Voloch, José Felipe *see* **Tate, John, 97h:11065**
Waldschmidt, Michel Erratum: "Density of rational points on an algebraic group" [Experiment. Math. **3** (1994), no. 4, 329–352; MR 96h:11071]. (French) **97d:11112**
Yeomans, Charles C. *see* **Leep, David B., 97k:11063**
Yoshioka, Kōta Numbers of $\mathbf{F}_q$-rational points of the moduli of stable sheaves on elliptic surfaces. **97d:14019**

14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Items with secondary classifications in 14G10

Adolphson, Alan (*with* Sperber, Steven) On the zeta function of a complete intersection. (English summary) **97f:14021**
Duursma, Iwan Class numbers for some hyperelliptic curves. (English summary) **97g:11062**
Gusić, Ivica Some theorems on equality of L-functions of elliptic curves. (English summary) **97i:11072**
(Ishida, Nobuhiko) *see* **Nagao, Koh-ichi, 97k:11102**
(Ishikawa, Tsuneo) *see* **Nagao, Koh-ichi, 97k:11102**
Nagao, Koh-ichi $Q(T)$-rank of elliptic curves and certain limit coming from the local points. **97k:11102**
Pellikaan, Ruud On special divisors and the two variable zeta function of algebraic curves over finite fields. (English summary) **97g:11063**
Sperber, Steven *see* **Adolphson, Alan, 97f:14021**
Ulmer, Douglas L. A construction of local points on elliptic curves over modular curves. **97b:11076**
Veys, Willem Determination of the poles of the topological zeta function for curves. (English summary) **97a:11192**
Wan, Da Qing L-functions of algebraic varieties over finite fields: rationality, meromorphy and entireness. (English summary) **97m:11087**
— Meromorphic continuation of L-functions of p-adic representations. **97c:14021**

14G15 Finite ground fields

Adolphson, Alan (*with* Sperber, Steven) On the zeta function of a complete intersection. (English summary) **97f:14021**
Aubry, Yves (*with* Perret, Marc) Coverings of singular curves over finite fields. **97g:14022**
Hefez, Abramo (*with* Kakuta, Neuza) Polars of Artin-Schreier curves. **97g:14023**
Kakuta, Neuza *see* **Hefez, Abramo, 97g:14023**
Perret, Marc *see* **Aubry, Yves, 97g:14022**
Rodier, François Nombre de points des surfaces de Deligne-Lusztig. (English and French summaries) [Number of points of Deligne-Lusztig surfaces] **97d:14034**
Sperber, Steven *see* **Adolphson, Alan, 97f:14021**

Items with secondary classifications in 14G15

Aubry, Yves (*with* Perret, Marc) A Weil theorem for singular curves. (English summary) **97g:11061**
de Boer, Mario A. MDS codes from hyperelliptic curves. (English summary) **97h:11061**
Cherdieu, Jean Pierre (*with* Rolland, Robert) On the number of points of some hypersurfaces in $\mathbf{F}_q^n$. (English summary) **97h:11064**
(Colliot-Thélène, Jean-Louis) *see* **Kahn, Bruno, 97k:14020**
Dumer, Ilya Nonbinary double-error-correcting codes designed by means of algebraic varieties. (English summary) **97k:94070**
Duursma, Iwan (*with* Stichtenoth, Henning; Vosa, Conny) Generalized Hamming weights for duals of BCH codes, and maximal algebraic function fields. (English summary) **97h:94022**
Gouvêa, Fernando Q. (*with* Yui, Noriko) ★ Arithmetic of diagonal hypersurfaces over finite fields. (English summary) **97k:11095**
— (*with* Yui, Noriko) "Brauer numbers" of twisted Fermat motives. **97k:11094**
Hefez, Abramo (*with* Kakuta, Neuza) Polar curves. **97b:14031**
Kahn, Bruno Résultats de "pureté" pour les variétés lisses sur un corps fini. (English summary) ["Purity" results for smooth varieties over a finite field] **97k:14020**
Kakuta, Neuza *see* **Hefez, Abramo, 97b:14031**
Kirfel, Christoph On the Clifford defect for special curves. (English summary) **97g:14029**
Lachaud, Gilles Number of points of plane sections and linear codes defined on algebraic varieties. (English summary) **97g:11065**
Leep, David B. (*with* Yeomans, Charles C.) Nonsingular zeros of quintic forms over finite fields. (English summary) **97k:11063**
Lenstra, Hendrik W., Jr. (*with* Zarkhin, Yu. G.) The Tate conjecture for almost ordinary abelian varieties over finite fields. **97c:11067**
— Complex multiplication structure of elliptic curves. (English summary) **97a:11096**
Niederreiter, Harald *see* **Xing, Chaoping, 97d:11098**
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Berkovich, Vladimir G. Vanishing cycles for non-Archimedean analytic spaces. **97e:32037**
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— (*with* Lütkebohmert, Werner; Raynaud, Michel) Formal and rigid geometry. III. The relative maximum principle. **97e:11074**
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— Classical and overconvergent modular forms. **97d:11090a**
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Tate, John A review of non-Archimedean elliptic functions. **97d:11096**
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14G25 Global ground fields

Choi, Hyun Joo Heights on singular projective curves.

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Agboola, A. Torsion points on elliptic curves and Galois module structure. **97a:11178**
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Bost, J.-B. Intrinsic heights of stable varieties and abelian varieties. **97j:14025**
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14G27 Nonalgebraically closed ground fields

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14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

Adler, Allan The Mathieu group M_{11} and the modular curve $X(11)$. **97k:14021**
Lee, Min Ho[1] Mixed automorphic vector bundles on Shimura varieties. (English summary) **97a:14024**
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14G40 Arithmetic varieties and schemes; Arakelov theory

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— Le théorème d'annulation de Serre pour les variétés arithmétiques. (English and French summaries) [Serre's vanishing theorem for arithmetical varieties] **97c:14023**
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— Hodge index theorem for arithmetic cycles of codimension one. **97c:14024**
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14G99 None of the above, but in this section

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14H05 Algebraic functions; function fields [see also 11R58]

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Items with secondary classifications in 14H05

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14H10 Families, moduli (algebraic)

Ballico, Edoardo (*with* Keem, Changho) On plane curves with several singular points with high multiplicity. (English summary) **97a:14025**
— (*with* Keem, Changho) Families of smooth k-gonal curves with another fixed pencil. **97k:14023**
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Keem, Changho *see* **Ballico, Edoardo, 97a:14025** *and* **97k:14023**
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Lee, Yuan-Pin A formula for Euler characteristics of tautological line bundles on the Deligne-Mumford moduli spaces. **97m:14028**
Moriwaki, Atsushi A sharp slope inequality for general stable fibrations of curves. **97m:14029**
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Catalano-Johnson, Michael L. When do k general double points impose independent conditions on degree d plane curves. (English summary) **97g:14038**
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Hein, G. (*with* Kurke, H.) Restricted tangent bundle on space curves. (English summary) **97b:14040**
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— (*with* Manin, Yuriĭ Ivanovich) Quantum cohomology of a product. **97e:14064**
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Ueno, Kenji Q-structure of conformal field theory with gauge symmetries. **97c:17043**

14H15 Families, moduli (analytic) [see also 30F10, 32Gxx]

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Hain, Richard M. Torelli groups and geometry of moduli spaces of curves. (English summary) **97d:14036**
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Liu, Kefeng Geometric height inequalities. **97j:14029**
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Ito, Minoru[2] *see* **Yamazaki, Seisi; et al., 97h:14044**
Kubo, Masahiko *see* **Yamazaki, Seisi; et al., 97h:14044**
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Marchetti, P. A. *see* **Bonelli, Giulio; et al., 97e:32023**
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Yamazaki, Seisi (*with* Ito, Minoru[2]; Saito, Yoshimitu; Ikeda, Toshikazu; Kubo, Masahiko; Tashiro, Masaaki; Higuchi, Teiichi) Riemann's period matrix of $y^2 = x^{2n+2} - 1$. (English summary) **97h:14044**
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14H20 Singularities, local rings [see also 13Hxx]

Assi, Abdallah Familles de courbes planes ayant une seule valeur irrégulière. (English and French summaries) [Families of plane curves with only one irregular value] **97f:14026**
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Oka, Mutsuo[1] Geometry of plane curves via toroidal resolution. **97j:14059**
Paoletti, Roberto Generalized Wahl maps and adjoint line bundles on a general curve. (English summary) **97e:14026**
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Pikaart, M. (*with* de Jong, Aise Johan) Moduli of curves with non-abelian level structure. **97e:14037**
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— Duality of real projective plane curves: Klein's equation. **97g:14041**
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14H25 Arithmetic ground fields [see also 11Dxx, 11G05, 14Gxx]

Buium, Alexandru Geometry of p-jets. **97e:14029**

Hefez, Abramo (*with* Kakuta, Neuza) Polar curves. **97b:14031**
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Nakamura, Hiroaki On exterior Galois representations associated with open elliptic curves. (English summary) **97a:11086**
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14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

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— (*with* Krichever, Igor Moiseevich) Multidimensional vector addition theorems and the Riemann theta functions. **97i:14028**
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Nakazawa, Yuji On the classification of smooth curves of genus $g = 3, 4, 5, 6$ with one place at infinity. **97f:14030**
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Gesztesy, Fritz (*with* Weikard, Rudi) Picard potentials and Hill's equation on a torus. **97f:14046**
Gilmer, Patrick M. Real algebraic curves and link cobordism. II. **97e:57006**
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Shustin, E. I. Geometry of equisingular families of plane algebraic curves. (English summary) **97g:14025**
Stevens, Jan Deformations of cones over hyperelliptic curves. **97d:14051**
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14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

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Arason, Jón Kr. (*with* Elman, Richard; Jacob, William B.) The Witt ring of an elliptic curve over a local field. **97k:11064**
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— (*with* Wieczerkowski, Christian) Conformal blocks on elliptic curves and the Knizhnik-Zamolodchikov-Bernard equations. (English summary) **97g:32019**
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14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

Ballico, Edoardo (*with* Gatto, Letterio) On bounds for the Weierstraß weight at singular points of Gorenstein curves. (Italian summary) **97a:14035**
Broughton, S. A. (*with* Bujalance, E.; Costa, Antonio F.; Gamboa, J. M.; Gromadzki, Grzegorz) Symmetries of Riemann surfaces on which $\mathrm{PSL}(2,q)$ acts as a Hurwitz automorphism group. **97e:14043**
Bujalance, E. *see* **Broughton, S. A.; et al., 97e:14043**
Costa, Antonio F. *see* **Broughton, S. A.; et al., 97e:14043**
Gamboa, J. M. *see* **Broughton, S. A.; et al., 97e:14043**
Gatto, Letterio *see* **Ballico, Edoardo, 97a:14035**
González-Diez, Gabino On prime Galois coverings of the Riemann sphere. **97c:14033**
— (*with* Hidalgo, Rubén A.) Conformal versus topological conjugacy of automorphisms on compact Riemann surfaces. (English summary) **97k:14031**
Gromadzki, Grzegorz *see* **Broughton, S. A.; et al., 97e:14043**
Hidalgo, Rubén A. *see* **González-Diez, Gabino, 97k:14031**
Homma, Masaaki The Weierstrass semigroup of a pair of points on a curve. **97j:14034**
Kawasaki, Masumi *see* **Kuribayashi, Akikazu; et al., 97d:14046**
Kim, Seon Jeong Weierstrass semigroups at inflection points. **97a:14036**
— Semigroups which are not Weierstrass semigroups. **97d:14045**
Kuribayashi, Akikazu (*with* Nakajo, Naoyuki; Kawasaki, Masumi) On the zero-maps and automorphism groups of a compact Riemann surface. (English summary) **97d:14046**
Nakajo, Naoyuki *see* **Kuribayashi, Akikazu; et al., 97d:14046**
Xu, Mingwei Remark on the Weierstrass points on curves. (English summary) **97d:14047**

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Accola, Robert D. M. ★ Topics in the theory of Riemann surfaces. **97k:30053**
Baker, H. F. ★ Abelian functions. (English summary) **97b:14038**
Ballico, Edoardo Weierstrass loci for vector bundles on curves. **97d:14048**
Garcia, Arnaldo (*with* Lax, R. F.) On canonical ideals, intersection numbers, and Weierstrass points on Gorenstein curves. **97h:14042**
González-Aguilera, Víctor *see* **Rodríguez, Rubí E., 97j:14033**
Gromadzki, Grzegorz Metabelian groups acting on compact Riemann surfaces. (English summary) **97b:20071**
Jones, Gareth A. Dessins d'enfants: bipartite maps and Galois groups. (English summary) **97c:14030**
Kolmakova, L. N. On the exponents of the elements of a normal basis of the ideal of algebraic functions on a three-sheeted Riemann surface. (Russian. English and Ukrainian summaries) **97b:30060**
(Krichever, Igor Moiseevich) *see* **Baker, H. F., 97b:14038**
Lax, R. F. *see* **Garcia, Arnaldo, 97h:14042**
Riera, Gonzalo Automorphisms of abelian varieties associated with Klein surfaces. **97c:14045**
Rodríguez, Rubí E. (*with* González-Aguilera, Víctor) Fermat's quartic curve, Klein's curve and the tetrahedron. (English summary) **97j:14033**
Sasaki, Tateaki *see* **Shiihara, Kousuke, 97c:14025**
Shiihara, Kousuke (*with* Sasaki, Tateaki) Analytic continuation and Riemann surface determination of algebraic functions by computer. (English summary) **97c:14025**
Zagier, Don On the distribution of the number of cycles of elements in symmetric groups. (English summary) **97a:20004**

14H60 Vector bundles on curves [see also 14F05]

Alzati, Alberto (*with* Bertolini, Marina; Besana, Gian Mario) Numerical criteria for very ampleness of divisors on projective bundles over an elliptic curve. (English summary) **97k:14032**
Ballico, Edoardo On the pole placement problem for linear systems of arbitrary genus. (English summary) **97k:14033**
— Splitting of vector bundles on algebraic curves and elementary transformations. **97j:14035**
— Weierstrass loci for vector bundles on curves. **97d:14048**
— On the multiplicative structure of sections of vector bundles on an algebraic curve. (English summary) **97e:14044**
Bertolini, Marina *see* **Alzati, Alberto; et al., 97k:14032**
Besana, Gian Mario *see* **Alzati, Alberto; et al., 97k:14032**
Bhosle, Usha N. Representations of the fundamental group and vector bundles. **97b:14041**
Grzegorczyk, I. All bundles in $W^3_{2,8}$ have infinitely many maximal subbundles.
Le Potier, Joseph ★ Fibrés vectoriels sur les courbes algébriques. (French) [Vector bundles over algebraic curves] **97c:14034**
Li, Yingchen (*with* Mulase, Motohico) Hitchin systems and KP equations. **97a:14037**
Mulase, Motohico *see* **Li, Yingchen, 97a:14037**
Paoletti, Roberto Seshadri positive curves in a smooth projective 3-fold. (English and Italian summaries) **97d:14049**
(Sorger, Christoph) *see* **Le Potier, Joseph, 97c:14034**

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Ando, Tetsuya On the normal bundle of an exceptional curve in a higher-dimensional algebraic manifold. **97j:14045**
Arés-Gastesi, Pablo *see* **Biswas, Indranil; et al., 97m:32031**
Ball, Joseph A. (*with* Vinnikov, Victor) Zero-pole interpolation for meromorphic matrix functions on an algebraic curve and transfer functions of 2D systems. (English summary) **97m:30051**
Beauville, Arnaud Vector bundles on Riemann surfaces and conformal field theory. **97e:14016**
Biswas, Indranil A remark on Hodge cycles on moduli spaces of rank 2 bundles over curves. **97c:14008**
— (*with* Arés-Gastesi, Pablo; Govindarajan, Suresh) Parabolic Higgs bundles and Teichmüller spaces for punctured surfaces. (English summary) **97m:32031**
Brivio, Sonia (*with* Verra, Alessandro) The theta divisor of $\mathrm{SU}_C(2,2d)^s$ is very ample if C is not hyperelliptic. **97e:14017**
Daskalopoulos, Georgios D. (*with* Wentworth, Richard A.) Factorization of rank two theta functions. II. Proof of the Verlinde formula. **97f:32018**
Donagi, Ron (*with* Witten, Edward) Supersymmetric Yang-Mills theory and integrable systems. (English summary) **97a:58076**
Faltings, Gerd Moduli-stacks for bundles on semistable curves. **97d:14016**
van Geemen, Bert (*with* Previato, Emma) On the Hitchin system. **97k:14010**
Govindarajan, Suresh *see* **Biswas, Indranil; et al., 97m:32031**
Hein, G. (*with* Kurke, H.) Restricted tangent bundle on space curves. (English summary) **97b:14040**
Kurke, H. *see* **Hein, G., 97b:14040**
Laszlo, Yves Local structure of the moduli space of vector bundles over curves. **97j:14012**
Laumon, Gérard (*with* Rapoport, Michael) The Langlands lemma and the Betti numbers of stacks of G-bundles on a curve. **97f:14012**
Lenzing, Helmut (*with* Skowroński, Andrzej) Quasi-tilted algebras of canonical type. **97j:16019**
Le Potier, Joseph Module des fibrés semi-stables et fonctions thêta. [Modulus of semistable bundles and theta functions] **97f:14013**
Nasatyr, Emile Ben (*with* Steer, Brian) The Narasimhan-Seshadri theorem for parabolic bundles: an orbifold approach. (English summary) **97c:53042**
Nekrasov, N. A. Holomorphic bundles and many-body systems. (English summary) **97i:58081**
Oxbury, W. M. (*with* Pauly, Christian) SU(2)-Verlinde spaces as theta spaces on Pryms. **97i:14009**
Pareschi, Giuseppe Gaussian maps and multiplication maps on certain projective varieties. **97c:14027**
Pauly, Christian *see* **Oxbury, W. M., 97i:14009**
Previato, Emma Seventy years of spectral curves: 1923–1993. (English summary) **97e:58119**
— *see also* **van Geemen, Bert, 97k:14010**
Ramadas, T. R. Factorisation of generalised theta functions. II. The Verlinde formula. (English summary) **97j:14014**
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Tan, Xiao Jiang The classification of $\omega^2_{2,g(3),2}$. (Chinese. English and Chinese summaries) **97a:14011**
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Zagier, Don On the cohomology of moduli spaces of rank two vector bundles over curves. **97g:14010**
Zucchini, Roberto Extrinsic Hermitian geometry of functional determinants for vector subbundles and the Drinfel'd-Sokolov ghost system. (English summary) **97d:58204**

14H99 None of the above, but in this section

Ballico, Edoardo On the minimal free resolution of some projective curves. (English summary) **97a:14038**
Bashmakova, I. G. (*with* Slavutin, E. I.) Glimpses of algebraic geometry.
Biswas, Indranil A remark on the jet bundles over the projective line. **97j:14036**
Chen, Jungkai Alfred On genera of smooth curves in higher-dimensional varieties. (English summary) **97j:14037**
Ciliberto, Ciro Some aspects of the classification of families of curves in projective space. (Italian) **97i:14021**
Daigle, D. On pencils of polynomial curves. (English summary) **97d:14050**

Katamachi, Kentaro The arithmetic of multivariable Puiseux series and its applications. (Japanese) (*see* **97c:00054**)
(Shenitzer, Abe) *see* **Bashmakova, I. G.**
Slavutin, E. I. *see* **Bashmakova, I. G.**

Items with secondary classifications in 14H99

Ballico, Edoardo On curves with special linear systems. (English summary) **97e:14006**
Bikbaev, Ramil' Faritovich On the nondegeneracy of amplitude-frequency modulation for finite-gap solutions of integrable nonlinear equations. (Russian. Russian summary) **97c:58062**
Coppens, Marc Brill-Noether theory for non-special linear systems. **97a:14006**
Danielsson, Ulf H. (*with* Sundborg, Bo) The moduli space and monodromies of $N = 2$ supersymmetric SO($2r + 1$) Yang-Mills theory. (English summary) **97a:81226**
Enriquez, Benjamin (*with* Rubtsov, V. V.) Hitchin systems, higher Gaudin operators and R-matrices. (English summary) **97j:58060**
Ferrari, Franco (*with* Sobczyk, Jan) Nonstandard conformal field theories from the b-c systems on general algebraic curves. (English summary) **97d:81177**
Gorskiĭ, A. S. (*with* Marshakov, A.; Mironov, A. D.; Morozov, A. Yu.) $N = 2$ supersymmetric QCD and integrable spin chains: rational case $N_f < 2N_c$. (English summary) **97e:81152**
Hannachi, Messaoud Invariants métriques associés à un point d'une courbe réelle dans $\mathbf{R}^n$. (English, French and Arabic summaries) [Metric invariants associated with a point of a real curve in $\mathbf{R}^n$] **97j:26019**
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Martinec, Emil J. (*with* Warner, Nicholas P.) Integrable systems and supersymmetric gauge theory. (English summary) **97g:58080**
Mironov, A. D. *see* **Gorskiĭ, A. S.; et al., 97e:81152**
Morozov, A. Yu. *see* **Gorskiĭ, A. S.; et al., 97e:81152**
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Rubtsov, V. V. *see* **Enriquez, Benjamin, 97j:58060**
Sakai, Manabu On fair parametric rational curves. **97m:65262**
Sheinman, O. K. Krichever-Novikov algebras and CCC-groups. (Russian) **97k:17046**
— Integrable many-body systems of Calogero-Moser-Sutherland type in high dimension. **97f:58072**
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Sundborg, Bo *see* **Danielsson, Ulf H., 97a:81226**
Vlăduţ, Serge G. Two remarks on the spectra of algebraic geometry codes. (English summary) **97g:11064**
Voisin, Claire On a conjecture of Clemens on rational curves on hypersurfaces. **97j:14047**
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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

(Barlow, Rebecca) *see* **Beauville, Arnaud, 97e:14045**
Beauville, Arnaud ★ Complex algebraic surfaces. **97e:14045**
Iskovskikh, V. A. (*with* Shafarevich, I. R.) Algebraic surfaces [MR 91f:14029]. (*see* **97a:14001**)
(Reid, Miles) *see* **Beauville, Arnaud, 97e:14045**
Shafarevich, I. R. *see* **Iskovskikh, V. A., (97a:14001)**
(Shepherd-Barron, N. I.) *see* **Beauville, Arnaud, 97e:14045**

14J05 Picard group [see also 14C22, 19A49, 32L05]

Coray, Daniel (*with* Manoil, Constantin) On large Picard groups and the Hasse principle for curves and $K3$ surfaces. **97j:14038**
Manoil, Constantin *see* **Coray, Daniel, 97j:14038**
Michelacakis, N. J. On the Picard group of a compact flat projective variety. (English summary) **97a:14039**

Items with secondary classifications in 14J05

Chen, Jungkai Alfred On genera of smooth curves in higher-dimensional varieties. (English summary) **97j:14037**
Hazama, Fumio Picard numbers of certain complete intersection surfaces. (English summary) **97m:14045**
Keum, Jong Hae Two extremal elliptic fibrations on Jacobian Kummer surfaces. **97h:14053**
Mainò, Laila Projectively normal curves on certain rational surfaces. **97d:14054**
Nishiyama, Ken-ichi Examples of Jacobian fibrations on some $K3$ surfaces whose Mordell-Weil lattices have the maximal rank 18. **97b:14046**
Vuletescu, Victor On the Picard group of some normal surfaces. **97d:32036**

14J10 Families, moduli, classification: algebraic theory

Catanese, Fabrizio (Some) old and new results on algebraic surfaces. **97b:14042**
Kovács, Sándor J. Smooth families over rational and elliptic curves. **97c:14035**
Nieto, Isidro Examples of abelian surfaces with polarization type $(1, 3)$. **97e:14046**
Sernesi, Edoardo Families of multisecant spaces. (Italian) **97b:14043**
Werner, Caryn A four-dimensional deformation of a numerical Godeaux surface. (English summary) **97k:14034**

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Chang, Mei-Chu The number of components of Hilbert schemes. **97f:14002**
— Inequidimensionality of Hilbert schemes. (English summary) **97j:14005**
Ciliberto, Ciro (*with* Lopez, Angelo Felice; Miranda, Rick) On the corank of Gaussian maps for general embedded $K3$ surfaces. (English summary) **97e:14049**
Hassett, Brendan Correlation for surfaces of general type. **97i:14025**
Kim, Yonggu Normal quintic Enriques surfaces with moduli number 6. (English summary) **97k:14038**
Lopez, Angelo Felice *see* **Ciliberto, Ciro; et al., 97e:14049**
Massey, David B. Milnor fibres of non-isolated hypersurface singularities. (English summary) **97c:32049**
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Miyaoka, Yoichi Rational curves on algebraic varieties. **97k:14043**
Penkava, Michael (*with* Schwarz, Albert) A_∞ algebras and the cohomology of moduli spaces. **97b:16015**
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Schwarz, Albert *see* **Penkava, Michael, 97b:16015**
Shafarevich, I. R. On some families of abelian surfaces. (Russian. Russian summary) **97m:14044**
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14J15 Moduli, classification: analytic theory [see also 32G13, 32J15]

(Hamahata, Yoshinori) *see* **Oda, Takayuki, 97a:14040**
Nikulin, Vyacheslav Valentinovich A remark on discriminants for moduli of $K3$ surfaces as sets of zeros of automorphic forms. (English summary) **97j:14039**
Oda, Takayuki Review of the transcendental theory of moduli of algebraic surfaces that have self-evident canonical divisors. (Japanese) **97a:14040**

Items with secondary classifications in 14J15

Blumenhagen, Ralph (*with* Wißkirchen, Andreas) Exploring the moduli space of $(0, 2)$ strings. (English summary) **97j:81244**
Gallego, Francisco Javier (*with* Purnaprajna, B. P.) Degenerations of $K3$ surfaces in projective space. (English summary) **97h:14048**
Gritsenko, V. A. (*with* Sankaran, G. K.) Moduli of abelian surfaces with a $(1, p^2)$ polarisation. (English summary) **97k:14011**
Kovács, Sándor J. Smooth families over rational and elliptic curves. **97c:14035**
Purnaprajna, B. P. *see* **Gallego, Francisco Javier, 97h:14048**
Sankaran, G. K. *see* **Gritsenko, V. A., 97k:14011**
Tsuji, Hajime On the universal covering of projective manifolds of general type. **97e:32030**
Wißkirchen, Andreas *see* **Blumenhagen, Ralph, 97j:81244**

14J17 Singularities of surfaces

Chmutov, S. V. Extremal distributions of critical points and critical values. (English summary) **97b:14044**
Guggenheimer, H. Homology of singular cubic surfaces in $P(3, \mathbf{C})$. (English summary) **97f:14032**
Oguiso, Keiji (*with* Zhang, De-Qi) On the most algebraic $K3$ surfaces and the most extremal log Enriques surfaces. (English summary) **97i:14022**
Stevens, Jan Deformations of cones over hyperelliptic curves. **97d:14051**
Takahashi, Tadashi Bimodular type simple $K3$ singularities. (*see* **97c:00054**)
Yang, Jin-gen Rational double points on a normal quintic $K3$ surface. (English summary) **97g:14030**
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Abhyankar, Shreeram S. Mathieu group coverings and linear group coverings. (English summary) **97e:14038**
Behnke, Kurt (*with* Riemenschneider, Oswald) Quotient surface singularities and their deformations. (English summary) **97c:32050**
Blache, Raimund Riemann-Roch theorem for normal surfaces and applications. **97h:14012**
Boratyński, M. On the curves of contact on surfaces in a projective space. III. (English summary) **97d:14043**
Chevallier, Benoît Smoothing isolated singularities on real algebraic surfaces. (English summary) **97d:14083**
Riemenschneider, Oswald *see* **Behnke, Kurt, 97c:32050**
Röhr, A. A vanishing theorem for line bundles on resolutions of surface singularities. **97b:32040**
Seade, José A. Invariants of 3-manifolds and surface singularities. (English summary) **97g:57024**
Slodowy, Peter Groups and special singularities. **97d:14004**

14J20 Arithmetic ground fields [see also 11Dxx, 11G25, 11G35, 14Gxx]

Items with secondary classifications in 14J20

Batyrev, V. V. (*with* Tschinkel, Yu.) Rational points on some Fano cubic bundles. (English and French summaries) **97j:14023**
Gouvêa, Fernando Q. (*with* Yui, Noriko) ★ Arithmetic of diagonal hypersurfaces over finite fields. (English summary) **97k:11095**
— (*with* Yui, Noriko) "Brauer numbers" of twisted Fermat motives. **97k:11094**
Sun, Xiaotao On relative canonical sheaves of arithmetic surfaces. **97k:14022**
Tankeev, S. G. Surfaces of $K3$ type over number fields and the Mumford-Tate conjecture. II. (Russian. Russian summary) **97d:11104**
Tschinkel, Yu. Finite heights and rational points on surfaces. **97a:11100**
— *see also* **Batyrev, V. V., 97j:14023**
Urabe, Tohsuke The bilinear form of the Brauer group of a surface. **97e:13003**
Yui, Noriko *see* **Gouvêa, Fernando Q., 97k:11094** *and* **97k:11095**

14J25 Special surfaces {For Hilbert modular surfaces, see 14G35.}

d'Almeida, Jean Surfaces associées au plongement canonique des courbes. [Surfaces associated with the canonical embedding of curves] **97c:14036**
Brînzănescu, Vasile Torsion of the Neron-Severi group for primary Kodaira surfaces. **97f:14033**
Cook, Michele An improved bound for the degree of smooth surfaces in $\mathbf{P}^4$ not of general type. **97d:14052**
Gallego, Francisco Javier (*with* Purnaprajna, B. P.) Degenerations of $K3$ surfaces in projective space. (English summary) **97h:14048**
Kaliman, Shulim (*with* Makar-Limanov, Leonid) On morphisms into contractible surfaces of Kodaira logarithmic dimension 1. **97j:14040**
Kotschick, D. Non-trivial harmonic spinors on generic algebraic surfaces. **97h:14049**
Küchle, Oliver Ample line bundles on blown up surfaces. **97a:14041**
Makar-Limanov, Leonid *see* **Kaliman, Shulim, 97j:14040**
Miyanishi, Masayoshi *see* **Sugie, Tohru, 97k:14035**
Moishezon, Boris (*with* Teicher, Mina) Braid group technique in complex geometry. V. The fundamental group of a complement of a branch curve of a Veronese generic projection. **97j:14041**
Nakamura, Iku (*with* Umezu, Yumiko) Nonexistence of normal quintic abelian surfaces in $\mathbf{P}^3$. **97a:14042**
Purnaprajna, B. P. *see* **Gallego, Francisco Javier, 97h:14048**
Roczen, Marko Cubic surfaces with double points in positive characteristic. **97d:14053**
Schreyer, Frank-Olaf Small fields in constructive algebraic geometry. **97h:14050**
Sugie, Tohru (*with* Miyanishi, Masayoshi) On Chern numbers of homology planes of certain types. **97k:14035**
Takeda, Yoshifumi Errata to the paper: "False hyperelliptic surfaces with section" [Math. Nachr. **167** (1994), 313–329; MR 95f:14070]. **97h:14051**
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Umezu, Yumiko *see* **Nakamura, Iku, 97a:14042**

Items with secondary classifications in 14J25

Biancofiore, Aldo (*with* Livorni, E. Laura) The asymptotic behaviour of the set of polarized, negative Kodaira dimension, surfaces as the sectional genus or the degree goes to infinity. **97h:14006**
Blache, Raimund Riemann-Roch theorem for normal surfaces and applications. **97h:14012**
Coffman, Adam (*with* Schwartz, Art J.; Stanton, Charles) The algebra and geometry of Steiner and other quadratically parametrizable surfaces. (English summary) **97g:53012**
Di Rocco, Sandra k-very ample line bundles on del Pezzo surfaces. (English summary) **97h:14007**
González-Dorrego, M. R. Degree 8 and genus 5 curves in $\mathbf{P}^3$ and the Horrocks-Mumford bundle. **97i:14020**
Guggenheimer, H. Homology of singular cubic surfaces in $P(3, \mathbf{C})$. (English summary) **97f:14032**
Gurjar, Rajendra Vasant (*with* Zhang, De-Qi) On the fundamental groups of some open rational surfaces. **97m:14021**
Hurtubise, Jacques Integrable systems and algebraic surfaces. **97c:14032a**
— Erratum to the paper: "Integrable systems and algebraic surfaces". **97c:14032b**
Livorni, E. Laura *see* **Biancofiore, Aldo, 97h:14006**
Rodier, François Nombre de points des surfaces de Deligne-Lusztig. (English and French summaries) [Number of points of Deligne-Lusztig surfaces] **97d:14034**
Schwartz, Art J. *see* **Coffman, Adam; et al., 97g:53012**
Stanton, Charles *see* **Coffman, Adam; et al., 97g:53012**
Zhang, De-Qi *see* **Gurjar, Rajendra Vasant, 97m:14021**

14J26 Rational and ruled surfaces

Du, Hong Complex ruled surfaces. II. (Chinese. English and Chinese summaries) **97e:14047**
Gallego, Francisco Javier (*with* Giraldo, Luis; Sols Lucía, Ignacio) Bounding families of ruled surfaces. (English summary) **97e:14048**
Giraldo, Luis *see* **Gallego, Francisco Javier; et al., 97e:14048**
Gurjar, Rajendra Vasant (*with* Miyanishi, Masayoshi) On contractible curves in the complex affine plane. (English summary) **97h:14052**
Lanteri, Antonio (*with* Tonoli, Fabio) Ruled surfaces with small class. (English summary) **97j:14042**
Mainò, Laila Projectively normal curves on certain rational surfaces. **97d:14054**
Martens, Gerriet The gonality of curves on a Hirzebruch surface. **97k:14036**
Miyanishi, Masayoshi *see* **Gurjar, Rajendra Vasant, 97h:14052**
Sols Lucía, Ignacio *see* **Gallego, Francisco Javier; et al., 97e:14048**
Tonoli, Fabio *see* **Lanteri, Antonio, 97j:14042**
Usui, Hisashi Mordell-Weil lattices of type D_5 and del Pezzo surfaces of degree four. **97b:14045**

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Crauder, Bruce (*with* Miranda, Rick) Quantum cohomology of rational surfaces. (English summary) **97i:14033**
Di Rocco, Sandra Projective surfaces with k-very ample line bundles of genus $\leq 3k + 1$. (English summary) **97i:14004**
(Drézet, Jean-Marc) *see* **Yoshioka, Kōta, 97i:14010**
Ellingsrud, Geir (*with* Le Potier, Joseph; Strømme, Stein A.) Some Donaldson invariants of $\mathbf{CP}^2$. **97j:14011**
Grojnowski, I. Instantons and affine algebras. I. The Hilbert scheme and vertex operators. (English summary) **97f:14041**
Harbourne, Brian Anticanonical rational surfaces. (English summary) **97f:14007**
Holay, Sandeep H. Free resolutions of the defining ideal of certain rational surfaces. (English summary) **97m:13032**
Hosoh, Toshio Automorphism groups of quartic del Pezzo surfaces. (English summary) **97i:14026**
Lanteri, Antonio (*with* Maeda, Hidetoshi) Geometrically ruled surfaces as zero loci of ample vector bundles. (English summary) **97i:14027**
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— (*with* Greene, Brian R.; Morrison, David R.) Calabi-Yau moduli space, mirror manifolds and spacetime topology change in string theory [MR 95i:32027]. (English summary) (*see* **97d:00024**)
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— *see also* **Blumenhagen, Ralph; et al., 97e:81134** *and* **Hunt, Bruce, 97g:32023**
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14J45 Fano varieties

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14J50 Automorphisms of surfaces and higher-dimensional varieties [see also 14E09]

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— Picard groups of the moduli spaces of vector bundles over algebraic surfaces. (English summary) **97e:14019**
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Yoshioka, Kôta A note on a paper of J.-M. Drézet on the local factoriality of some moduli spaces: "Points non factoriels des variétés de modules de faisceaux semi-stables sur une surface rationnelle" [J. Reine Angew. Math. **413** (1991), 99–126; MR 92d:14009]. **97i:14010**
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14J70 Hypersurfaces

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Noma, Atsushi Hypersurfaces with smooth dual varieties. **97a:14046**
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14J99 None of the above, but in this section

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Sebastiani, Marcos Solutions algébriques et intégrales premières des feuilletages analytiques sur les surfaces algébriques. [Algebraic solutions and first integrals of analytic foliations on algebraic surfaces] **97a:32040**
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14Kxx Abelian varieties and schemes

14K02 Isogeny

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Items with secondary classifications in 14K02

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— (*with* Carbonne, Philippe) Courbes $X^mY^n + Y^mZ^n + Z^mX^n = 0$ et décomposition de la jacobienne. [Curves $X^mY^n + Y^mZ^n + Z^mX^n = 0$ and decomposition of the Jacobian] **97m:14032**
Carbonne, Philippe *see* **Bennama, Habib, 97j:14032** *and* **97m:14032**
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— *see also* **Halberstadt, Emmanuel, 97i:11059**
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14K05 Algebraic theory

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Polishchuk, Alexander Symplectic biextensions and a generalization of the Fourier-Mukai transform. **97j:14051**
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Birkenhake, Christina Noncomplete linear systems on abelian varieties. (English summary) **97a:14005**
Bosch, Siegfried (*with* Xarles, Xavier) Component groups of Néron models via rigid uniformization. **97f:14022**
Cherry, William A. A non-Archimedean analogue of the Kobayashi semi-distance and its non-degeneracy on abelian varieties. **97b:32049**
Deninger, Christopher Isogenies of abelian varieties with multiplications and Fitting ideals. **97h:14061**
Donagi, Ron (*with* Witten, Edward) Supersymmetric Yang-Mills theory and integrable systems. (English summary) **97a:58076**
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Fakhruddin, Najmuddin Algebraic cycles on generic abelian varieties. (English summary) **97e:14008**
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Maciocia, Antony Generalized Fourier-Mukai transforms. **97g:14013**
Silverberg, Alice (*with* Zarkhin, Yu. G.) Connectedness results for l-adic representations associated to abelian varieties. **97d:11097**
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14K10 Algebraic moduli, classification

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Oort, Frans (*with* de Jong, Aise Johan) Hyperelliptic curves in abelian varieties. **97j:14052**
Shafarevich, I. R. On some families of abelian surfaces. (Russian. Russian summary) **97m:14044**

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Clozel, L. (*with* Venkataramana, T. N.) Virtual cohomology of the moduli space of curves in the unstable range. **97j:14027**
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Gómez González, Esteban The trisecant conjecture. **97b:14036**
— Corrigendum: "The trisecant conjecture" [Math. Ann. **305** (1996), no. 1, 153–159; MR 97b:14036]. **97m:14033**
Gritsenko, V. A. (*with* Sankaran, G. K.) Moduli of abelian surfaces with a $(1, p^2)$ polarisation. (English summary) **97k:14011**
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14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

Chambert-Loir, Antoine Extension universelle d'une variété abélienne et hauteurs des points de torsion. (French summary) [Universal extension of an abelian variety and heights of torsion points] **97h:14062**
Larsen, Michael Jeffrey (*with* Pink, R.) Abelian varieties, l-adic representations, and l-independence. **97e:14057**
Pink, R. *see* **Larsen, Michael Jeffrey, 97e:14057**
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Tankeev, S. G. Cycles on abelian varieties, and exceptional numbers. (Russian. Russian summary) **97f:14045**
Yamagishi, Hizuru On abelian surfaces with rank 12 associated to certain $K3$ surfaces. (English summary) **97j:14053**
Zarkhin, Yu. G. (*with* Silverberg, Alice) Rigidity theorems for abelian varieties. (Russian)

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Bost, J.-B. Intrinsic heights of stable varieties and abelian varieties. **97j:14025**
Coates, J. (*with* Greenberg, Ralph) Kummer theory for abelian varieties over local fields. **97b:11079**
Flynn, E. V. The arithmetic of hyperelliptic curves. **97g:11066**
Greenberg, Ralph *see* **Coates, J., 97b:11079**
Lenstra, Hendrik W., Jr. (*with* Zarkhin, Yu. G.) The Tate conjecture for almost ordinary abelian varieties over finite fields. **97c:11067**
Masser, D. W. Specializations of endomorphism rings of abelian varieties. (English and French summaries) **97k:11093**
Noot, Rutger Abelian varieties—Galois representation and properties of ordinary reduction. **97a:11093**
Philippon, Patrice Sur des hauteurs alternatives. III. [On alternative heights. III] **97a:11098**
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Stoll, Michael An example of a simple 2-dimensional abelian variety defined over $\mathbf{Q}$ with Mordell-Weil group of rank at least 20. (English and French summaries) **97g:11057**
Tankeev, S. G. On the Mumford-Tate conjecture for abelian varieties. (English summary) **97i:11065**
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14K20 Analytic theory; abelian integrals and differentials

Gesztesy, Fritz (*with* Weikard, Rudi) Picard potentials and Hill's equation on a torus. **97f:14046**
Novikov, Dmitri (*with* Yakovenko, S. Yu.) Simple exponential estimate for the number of real zeros of complete Abelian integrals. (English and French summaries) **97b:14053**
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14K22 Complex multiplication [see also 11G15]

Murabayashi, Naoki The field of moduli of abelian surfaces with complex multiplication. **97b:14054**

Items with secondary classifications in 14K22

Zarkhin, Yu. G. CM abelian varieties with almost ordinary reduction. **97b:11080**

14K25 Theta functions

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14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

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14K99 None of the above, but in this section

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14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Candilera, Maurizio (*with* Cristante, Valentino) Periods and duality of p-adic Barsotti-Tate groups. **97d:14065**
Chai, Ching-Li The group action on the closed fiber of the Lubin-Tate moduli space. **97h:14064**
Cristante, Valentino *see* **Candilera, Maurizio, 97d:14065**
Genestier, Alain Espaces symétriques de Drinfeld. (French summary) [Drinfel'd symmetric spaces] **97k:14045**
de Jong, Aise Johan Crystalline Dieudonné module theory via formal and rigid geometry. **97f:14047**
Kordzaya, K. Classification of formal groups of type $F(x,y)=[xR(y)+yR(x)]\Psi(xy)$. (Russian. English and Georgian summaries) **97i:14029**
Moss, David J. Hopf Galois Kummer theory of formal groups. (English summary) **97b:14055**
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Suwa, Noriyuki A test of Kummer-Artin-Schreier-Witt theory. I. (Japanese) (*see* **97d:00019**)

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Ando, Matthew Isogenies of formal group laws and power operations in the cohomology theories E_n. **97a:55006**
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— On φ-modules. **97e:11067**
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14L10 Group varieties

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14L15 Group schemes

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Bosch, Siegfried (*with* Xarles, Xavier) Component groups of Néron models via rigid uniformization. **97f:14022**
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Xarles, Xavier *see* **Bosch, Siegfried, 97f:14022**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Items with secondary classifications in 14L17

Horvath, Jozsef On the equations defining irreducible algebraic groups. **97c:20067**

14L27 Automorphism groups [see also 14E09]

Riera, Gonzalo Automorphisms of abelian varieties associated with Klein surfaces. **97c:14045**

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Ivanenko, N. L. Normal structure of the Jonquere [Jonquière] group over a field of characteristic zero. (English summary) **97k:14017**
Kraft, Hanspeter Challenging problems on affine n-space. (English summary) **97m:14042**

14L30 Group actions on varieties or schemes (quotients) [see also 14D25]

Benson, Chal (*with* Ratcliff, Gail) A classification of multiplicity free actions. (English summary) **97c:14046**
Białynicki-Birula, A. (*with* Święcicka, J.) Three theorems on existence of good quotients. **97j:14054**
Chinburg, T. (*with* Erez, B.; Pappas, Georgios; Taylor, Martin J.) Tame actions of group schemes: integrals and slices. **97d:14066**
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Kaliman, Shulim Exotic structures on $\mathbf{C}^n$ and $\mathbf{C}^*$-action on $\mathbf{C}^3$. **97e:14058**
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Luna, D. Toute variété magnifique est sphérique. (English summary) [Every wonderful variety is spherical] **97h:14066**
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Miki, Hiroyuki Non-linearizable real algebraic actions of $O(2, \mathbf{R})$ on $\mathbf{R}^4$. **97j:14055**
Nagase, Teruko An algebraic SL_2-vector bundle over R_2 as a variety. (English summary) **97c:14047**
Pappas, Georgios *see* **Chinburg, T.; et al., 97d:14066**
Polito, Marzia $SL(2, \mathbf{C})$-quotients de $(\mathbf{P}^1)^n$. (English and French summaries) [$SL(2, \mathbf{C})$-quotients of $(\mathbf{P}^1)^n$] **97a:14049**
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Brion, Michel (*with* Joshua, Roy) Equivariant intersection cohomology of semi-stable points. (English summary) **97j:14021**
De Concini, Corrado (*with* Weyman, Jerzy) A formula with nonnegative terms for the degree of the dual variety of a homogeneous space. (English summary) **97c:14051**
Elizondo, E. Javier (*with* Hain, Richard M.) Chow varieties of abelian varieties. (English summary) **97j:14006**
Geiss, Christof Geometric methods in representation theory of finite-dimensional algebras. **97m:16025**
Hain, Richard M. *see* **Elizondo, E. Javier, 97j:14006**
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Keel, Seán (*with* Mori, Shigefumi) Quotients by groupoids. **97m:14014**
Kollár, János Quotient spaces modulo algebraic groups. **97m:14013**
Kontsevich, M. L. Enumeration of rational curves via torus actions. **97d:14077**
— Rigorous results in topological σ-model. **97d:14078**
Kraft, Hanspeter Challenging problems on affine n-space. (English summary) **97m:14042**
Lauritzen, Niels (*with* Mehta, Vikram) Fibre products of homogeneous spaces. **97m:14047**
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Nakajima, Hiraku Varieties associated with quivers. **97m:16022**
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Schwarz, Gerald W. Invariant differential operators. **97m:16049**
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Van den Bergh, Michel Some rings of differential operators for Sl_2-invariants are simple. (English summary) **97c:16032**
Weyman, Jerzy *see* **De Concini, Corrado, 97c:14051**
Zhu, Chen-Bo *see* **Aslaksen, Helmer; et al., 97a:13009**

14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Items with secondary classifications in 14L35

Bielawski, Roger On the hyper-Kähler metrics associated to singularities of nilpotent varieties. (English summary) **97e:53083**
Ducros, Antoine Principe de Hasse pour les espaces principaux homogènes sous les groupes classiques sur un corps de dimension cohomologique virtuelle au plus 1. (English summary) [Hasse principle for principal homogeneous spaces under classical groups over a field of virtual cohomological dimension at most 1] **97d:20052**
Kobak, Piotr Z. (*with* Swann, Andrew) Classical nilpotent orbits as hyper-Kähler quotients. (English summary) **97f:53078**
Swann, Andrew *see* **Kobak, Piotr Z., 97f:53078**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13C14, 13F45, 13H10]

Geramita, Anthony V. (*with* Migliore, Juan C.) Reduced Gorenstein codimension three subschemes of projective space. (English summary) **97h:14068**
Migliore, Juan C. *see* **Geramita, Anthony V., 97h:14068**

Items with secondary classifications in 14M05

Ballico, Edoardo On the linearly general position of a general hyperplane section of nonreduced curves. **97f:14031**
— (*with* Cossidente, Antonio) On the homogeneous ideal of unreduced projective schemes. (English summary) **97d:14076**
Cossidente, Antonio *see* **Ballico, Edoardo, 97d:14076**
De Concini, Corrado (*with* Pragacz, Piotr) On the class of Brill-Noether loci for Prym varieties. **97e:14040**
Eisenbud, David (*with* Green, Mark; Harris, Joseph Daniel) Cayley-Bacharach theorems and conjectures. **97a:14059**
Geramita, Anthony V. Inverse systems of fat points: Waring's problem, secant varieties of Veronese varieties and parameter spaces for Gorenstein ideals. **97h:13012**
Green, Mark *see* **Eisenbud, David; et al., 97a:14059**
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Pragacz, Piotr *see* **De Concini, Corrado, 97e:14040**

14M06 Linkage [see also 13C40]

Items with secondary classifications in 14M06

Shin, Yong Su Remarks on k-configurations in $\mathbf{P}^2$. **97c:13010**
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14M07 Low codimension problems [see also 14Cxx]

Giraldo, Luis (*with* Sols Lucía, Ignacio) On the sectional irregularity of congruences. **97d:14071**
Sols Lucía, Ignacio *see* **Giraldo, Luis, 97d:14071**

Items with secondary classifications in 14M07

Borek, Adam (*with* Griffith, Phillip) Weak purity for Gorenstein rings is determined in codimension four. (English summary) **97b:13030**
de Cataldo, Mark Andrea A. A finiteness theorem for low-codimensional nonsingular subvarieties of quadrics. (English summary) **97h:14057**
Griffith, Phillip *see* **Borek, Adam, 97b:13030**

14M10 Complete intersections [see also 13C40]

Basili, Bénédicte Indice de Clifford des intersections complètes de l'espace. (English and French summaries) [Clifford index of complete intersections in space] **97f:14048**
Brawner, James N. Tetragonal curves, scrolls, and $K3$ surfaces. (English summary) **97j:14056**
Brückmann, Peter A remark on moduli spaces of complete intersections. **97e:14059**
Gherardelli, Francesco Projective invariants of complete intersections. (English summary) **97a:14050**
Hazama, Fumio Picard numbers of certain complete intersection surfaces. (English summary) **97m:14045**

Items with secondary classifications in 14M10

Boratynski, M. On the curves of contact on surfaces in a projective space. III. (English summary) **97d:14043**
Damon, James Higher multiplicities and almost free divisors and complete intersections. (English summary) **97d:32050**
Fang, Fuquan Topological classification of complete intersections. (English and French summaries) **97m:57049**
Félix, Yves (*with* Gómez-Tato, A.; Tanré, D.) Homologie de l'espace des lacets des intersections complètes. [Homology of the loop space of complete intersections] **97b:55009**
Fischer, Klaus G. (*with* Morris, Walter; Shapiro, Jay) Affine semigroup rings that are complete intersections. (English summary) **97m:13026**
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Guseĭn-Zade, S. M. On calculation of Dynkin diagrams of some complete intersections. **97m:32050**
Morris, Walter *see* **Fischer, Klaus G.; et al., 97m:13026**
Oka, Mutsuo[1] A Lefschetz type theorem in a torus. (English summary) **97b:14023**
Patil, D. P. Certain curves are set-theoretic complete intersections. (English summary) **97g:13021**
Rackwitz, Hans-Georg Birational geometry of complete intersections. **97g:14016**
Shapiro, Jay *see* **Fischer, Klaus G.; et al., 97m:13026**

Tanré, D. *see* **Félix, Yves; et al., 97b:55009**
Wall, Charles T. C. Weighted homogeneous complete intersections. (English summary) **97h:14002**

14M12 Determinantal varieties [see also 13C40]

Ng, Kok Onn The classification of (3, 3, 3) trilinear forms. **97a:14051**
Re, Riccardo A note on linear subspaces of determinantal varieties. (English summary) **97c:14048**

Items with secondary classifications in 14M12

Conca, Aldo Gorenstein ladder determinantal rings. (English summary) **97g:13020**

14M15 Grassmannians, Schubert varieties, flag manifolds [see also 32M10, 51M35]

Bertram, Aaron Computing Schubert's calculus with Severi residues: an introduction to quantum cohomology. **97d:14072**
Cygan, Bohdan Leszek Isomorphismus der Kollineationengruppe des P_3 mit einer Autokollineationengruppe der Plückerquadrik. [Isomorphism of the collineation group of the P_3 with an autocollineation group of the Plücker quadric] **97m:14046**
Giraldo, Luis (*with* Sols Lucía, Ignacio) Chow forms of congruences. **97h:14069**
Hille, Lutz Examples of distinguished tilting sequences on homogeneous varieties. (English summary) **97e:14060**
Kumar, Shrawan The nil Hecke ring and singularity of Schubert varieties. **97a:14052**
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Manivel, Laurent On the syzygies of flag manifolds. (English summary) **97a:14053**
Mulay, S. B. Intersections of Schubert varieties. **97i:14031**
Piontkowski, Jens A normal form for curves in Grassmannians. (English summary) **97a:14054**
Pragacz, Piotr (*with* Ratajski, Jan) A Pieri-type theorem for Lagrangian and odd orthogonal Grassmannians. **97i:14032**
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Sankaran, Parameswaran (*with* Vanchinathan, P.) Small resolutions of Schubert varieties and Kazhdan-Lusztig polynomials. **97a:14055**
Shapiro, Boris Z. (*with* Shapiro, M. Z.; Vainshtein, A. D.) Topology of intersections of Schubert cells and Hecke algebra. (English summary) **97d:14073**
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Sottile, Frank Pieri's formula for flag manifolds and Schubert polynomials. (English and French summaries) **97g:14035**
Vainshtein, A. D. *see* **Shapiro, Boris Z.; et al., 97d:14073**
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Items with secondary classifications in 14M15

Dabrowski, Romuald On normality of the closure of a generic torus orbit in G/P. (English summary) **97d:14067**
Debarre, Olivier Sur un théorème de connexité de Mumford pour les espaces homogènes. (English summary) [A connectivity theorem of Mumford for homogeneous spaces] **97c:14016**
Franco, Davide (*with* Reina, Cesare) The geometry of the quantum correction for topological σ-models. (English summary) **97d:14007**
Fulton, William Positive polynomials for filtered ample vector bundles. **97a:14044**
Gallego, Francisco Javier (*with* Giraldo, Luis; Sols Lucía, Ignacio) Bounding families of ruled surfaces. (English summary) **97e:14048**
Giraldo, Luis (*with* Sols Lucía, Ignacio) On the sectional irregularity of congruences. **97d:14071**
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Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
Kim, Meeyoung A Barth-Lefschetz type theorem for branched coverings of Grassmannians. **97c:14019**
Kostant, Bertram Flag manifold quantum cohomology, the Toda lattice, and the representation with highest weight ρ. **97e:17029**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**
Maillot, Vincent Un calcul de Schubert arithmétique. [An arithmetic Schubert calculus] **97h:14039**
Mehta, Vikram (*with* Venkataramana, T. N.) A note on Steinberg modules and Frobenius splitting. **97e:20069**
Morishita, Masanori A mean value property in adèle geometry.
Neĭfel'd, È. G. Intrinsic geometries of polarized complex Grassmannians. (Russian) **97h:53059**
Nogin, D. Yu. Codes associated to Grassmannians. (English summary) **97k:94075**
Patras, F. Le calcul de Schubert des permutations décomposables. (English and French summaries) [The Schubert calculus of decomposable permutations] **97c:05161**
Rapoport, Michael (*with* Zink, Th.) ★ Period spaces for p-divisible groups. **97f:14023**
Ravi, M. S. (*with* Rosenthal, Joachim; Wang, Xiaochang Alex) Dynamic pole assignment and Schubert calculus. (English summary) **97c:93051**
Reina, Cesare *see* **Franco, Davide, 97d:14007**
Rosenthal, Joachim *see* **Ravi, M. S.; et al., 97c:93051**
Sols Lucía, Ignacio *see* **Giraldo, Luis, 97d:14071** *and* **Gallego, Francisco Javier; et al., 97e:14048**
Sommers, E. The homology of the space of affine flags containing a nilpotent element. (English summary) **97j:14020**
Vainsencher, Israel Flatness of families induced by hypersurfaces on flag varieties. (English summary) **97k:14054**
Venkataramana, T. N. *see* **Mehta, Vikram, 97c:20069**
Wang, Xiaochang Alex *see* **Ravi, M. S.; et al., 97c:93051**
Zink, Th. *see* **Rapoport, Michael, 97f:14023**

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14M17 Homogeneous spaces and generalizations [see also 32M10, 53C30, 57T15]

Bien, Frédéric (*with* Borel, Armand; Kollár, János) Rationally connected homogeneous spaces. **97c:14049**
Borel, Armand *see* **Bien, Frédéric; et al., 97c:14049**
Brion, Michel Spherical varieties. **97f:14049**
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14M20 Rational varieties

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Itenberg, I. V. (*with* Roy, Marie Françoise) Multivariate Descartes' rule. **97h:14071**
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— (*with* Wang, Xiaoshen) Counting affine roots of polynomial systems via pointed Newton polytopes. (English summary) **97e:14063**

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— (*with* Borisov, Lev A.) Mirror duality and string-theoretic Hodge numbers. (English summary) **97k:14039**
— (*with* Dais, Dimitrios I.) Strong McKay correspondence, string-theoretic Hodge numbers and mirror symmetry. (English summary) **97e:14023**
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— (*with* Katz, Sheldon H.) Mirror symmetry constructions: a review. (English summary) **97k:14040**
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Geometry of Toric Varieties and Convex Polytopes ★ Tōrikku tayōtai no kika to totsu tamentai. (Japanese) [Geometry of toric varieties and convex polytopes] **97c:00043**

14M30 Supervarieties [see also 14A22, 32C11, 58A50]

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Natanzon, S. M. Moduli spaces of real algebraic supercurves with $N = 2$. (Russian. Russian summary) **97m:14049**
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14N05 Projective techniques [see also 51N35]

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Harris, Joseph Daniel *see* **Eisenbud, David; et al., 97a:14059**
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Bertolini, Marina *see* **Alzati, Alberto; et al., 97k:14032**
Besana, Gian Mario *see* **Alzati, Alberto; et al., 97k:14032**
Canonero, G. (*with* Catalisano, Maria Virginia; Serpico, Maria Ezia) Inflection points of cubic hypersurfaces. **97d:14062**
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Rogora, Enrico A note on a construction suggested by Eugenio Bertini. (Italian summary) **97b:14007**
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14N10 Enumerative problems (combinatorial problems)

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Crauder, Bruce (*with* Miranda, Rick) Quantum cohomology of rational surfaces. (English summary) **97i:14033**

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Henningson, Måns (*with* Moore, Gregory W.) Counting curves with modular forms. (English summary) **97i:14034**
Jinzenji, Masao (*with* Sun, Yi) Calculation of Gromov-Witten invariants for CP^3, CP^4 and $Gr(2,4)$. (English summary) **97f:14052**
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(Kaufmann, Ralph Martin) *see* **Kontsevich, M. L., 97e:14064**
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— (*with* Manin, Yuriĭ Ivanovich) Quantum cohomology of a product. **97e:14064**
— (*with* Manin, Yuriĭ Ivanovich) Gromov-Witten classes, quantum cohomology, and enumerative geometry [MR 95i:14049]. (English summary) (*see* **97d:00024**)
Lian, Bong H. (*with* Yau, Shing-Tung) Mirror symmetry, rational curves on algebraic manifolds and hypergeometric series. (English summary) **97a:14060**
Manin, Yuriĭ Ivanovich Generating functions in algebraic geometry and sums over trees. **97e:14065**
— *see also* **Kontsevich, M. L., 97e:14064** *and* **(97d:00024)**
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Morrison, David R. Making enumerative predictions by means of mirror symmetry. (English summary) **97j:14062**
Mourrain, B. Enumeration problems in geometry, robotics and vision. **97h:14074**
Petitjean, S. The complexity and enumerative geometry of aspect graphs of smooth surfaces. **97j:14063**
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Wall, Charles T. C. Highly singular quintic curves. **97b:14058**
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Yau, Shing-Tung (*with* Zaslow, Eric) BPS states, string duality, and nodal curves on $K3$. (English summary) **97e:14066**
— *see also* **Lian, Bong H., 97a:14060**
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Bertin, José (*with* Demailly, Jean-Pierre; Illusie, Luc; Peters, Chris) ★ Introduction à la théorie de Hodge. (French. English and French summaries) [Introduction to Hodge theory] **97e:14011**
— (*with* Peters, Chris) Variations de structures de Hodge, variétés de Calabi-Yau et symétrie miroir. [Variations of Hodge structures, Calabi-Yau manifolds and mirror symmetry] (*see* **97e:14011**)
Bertram, Aaron Computing Schubert's calculus with Severi residues: an introduction to quantum cohomology. **97d:14072**
Candelas, Philip (*with* de la Ossa, Xenia C.; Font, Anamaría; Katz, Sheldon H.; Morrison, David R.) Mirror symmetry for two parameter models. I [MR 95k:32020]. (English summary) (*see* **97d:00024**)
Cecotti, Sergio *see* **Bershadsky, M.; et al., (97d:00024)**
Coppens, Marc Brill-Noether theory for non-special linear systems. **97a:14006**
Dais, Dimitrios I. ★ Enumerative combinatorics of invariants of certain complex threefolds with trivial canonical bundle. (English summary) **97d:14057**
Demailly, Jean-Pierre *see* **Bertin, José; et al., 97e:14011**
Dubrovin, B. A. Geometry of 2D topological field theories. **97d:58038**
Font, Anamaría *see* **Candelas, Philip; et al., (97d:00024)**
Fré, Pietro (*with* Soriani, Paolo) ★ The $N = 2$ wonderland. **97f:81001**
Garay, Mauricio Vanishing flattening points and generalized Plücker formulas. (English and French summaries) **97h:14041**
Givental', A. B. Homological geometry and mirror symmetry. **97j:58013**
— Equivariant Gromov-Witten invariants. **97e:14015**
Greene, Brian R. (*with* Plesser, M. Ronen) Mirror manifolds: a brief review and progress report. (English summary) (*see* **97e:81002**)
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Jinzenji, Masao (*with* Nagura, Masaru) Mirror symmetry and an exact calculation of an $(N-2)$-point correlation function on a Calabi-Yau manifold embedded in CP^{N-1}. (English summary) **97b:32037**
Katz, Sheldon H. *see* **Candelas, Philip; et al., (97d:00024)**
Manin, Yuriĭ Ivanovich Problems on rational points and rational curves on algebraic varieties. **97a:14022**
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Ruan, Yongbin (*with* Tian, Gang) Higher genus symplectic invariants and sigma model coupled with gravity. **97d:58029**
Shustin, E. I. Critical points of real polynomials, subdivisions of Newton polyhedra and topology of real algebraic hypersurfaces. (English summary) **97g:14040**
Soriani, Paolo *see* **Fré, Pietro, 97f:81001**
Sugiyama, Katsuyuki Three-point functions on the sphere of Calabi-Yau d-folds. (English summary) **97c:32026**
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Vainsencher, Israel Flatness of families induced by hypersurfaces on flag varieties. (English summary) **97k:14054**
Voisin, Claire ★ Symétrie miroir. (French. English and French summaries) [Mirror symmetry] **97i:32026**
Yau, Shing-Tung (*with* Zaslow, Eric) BPS states as symplectic invariants from string theory. **97k:32033**
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Penne, Rudi Moves on pseudoline diagrams. (English summary) **97j:52018**

14Pxx Real algebraic and real analytic geometry

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Hannachi, Messaoud (*with* Mezaghcha, Khalifa) Formules du repère mobile. (English, French and Arabic summaries) [Moving-frame formulas]
Mazurovskiĭ, V. F. (*with* Pavlov, N. B.) Classification of ordered nonsingular configurations of at most seven lines of the space RP^3 up to rigid isotopy. (Russian. Russian summary) **97j:14064**
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Natanzon, S. M. Spinors and differentials of real algebraic curves. (English summary) **97c:14054**
O'Shea, Donal (*with* Wilson, Les) Tangent and normal cones to real surfaces. (English summary) **97k:14055**
Paris, Stephen P. An extremal property of Rokhlin's inequality for real algebraic curves. **97f:14054**
Pavlov, N. B. *see* **Mazurovskiĭ, V. F., 97j:14064**
Ronga, F. *see* **Gamboa, J. M., 97c:14053**
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Zvonilov, V. I. Stratified spaces of real algebraic curves of bidegree $(m,1)$ and $(m,2)$ on a hyperboloid. (English summary) **97j:14065**

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Bochnak, Jacek (*with* Kucharz, Wojciech) A characterization of dividing real algebraic curves. **97d:14082**
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Cima, Anna (*with* Gasull, Armengol; Llibre, Jaume; Mañosas, Francesc) Global injectivity of polynomial maps via vector fields. (English summary) **97c:14012**
Cirre, Francisco Javier Moduli of hyperelliptic real curves with maximum number of connected components. (English and French summaries) **97a:14029**
Degtyarëv, Aleksandr Igorevich Quadratic transformations $RP^2 \to RP^2$. (English summary) **97a:14013**
Fefferman, Charles L. (*with* Narasimhan, Raghavan) A local Bernstein inequality on real algebraic varieties. **97m:32012**
Finashin, S. M. Rokhlin conjecture and quotients of complex surfaces by complex conjugation. **97i:57022**
Gasull, Armengol *see* **Cima, Anna; et al., 97c:14012**
Itenberg, I. V. (*with* Roy, Marie Françoise) Multivariate Descartes' rule. **97h:14071**
Kikuchi, Makoto Introduction to model theory for real algebraic geometry. (Japanese) (*see* **97c:00042**)
Kucharz, Wojciech *see* **Bochnak, Jacek, 97d:14082**
Llibre, Jaume *see* **Cima, Anna; et al., 97c:14012**
Lombardi, Henri (*with* Mnëv, N. E.; Roy, Marie Françoise) The Positivstellensatz and small deduction rules for systems of inequalities. **97h:14077**
Mañosas, Francesc *see* **Cima, Anna; et al., 97c:14012**
Mnëv, N. E. *see* **Lombardi, Henri; et al., 97h:14077**
Narasimhan, Raghavan *see* **Fefferman, Charles L., 97m:32012**
Roy, Marie Françoise *see* **Itenberg, I. V., 97h:14071** *and* **Lombardi, Henri; et al., 97h:14077**
Shustin, E. I. Interpolation by convex algebraic hypersurfaces. (English summary) **97j:41025**

14P10 Semialgebraic sets and related spaces

Acquistapace, F. (*with* Broglia, Fabrizio; Fortuna, E.) A separation theorem in dimension 3. **97k:14056**
Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie Françoise) On the number of cells defined by a family of polynomials on a variety. (English summary) **97h:14076**
Bröcker, L. Semialgebraische Geometrie. [Semialgebraic geometry]

Broglia, Fabrizio *see* **Acquistapace, F.; et al., 97k:14056**
Fortuna, E. *see* **Acquistapace, F.; et al., 97k:14056**
Galligo, André (*with* Vorob'ev, N. N., Jr.) Complexity of finding irreducible components of a semialgebraic set. (English summary) **97d:14079**
Lickteig, Thomas Semi-algebraic decision complexity, the real spectrum, and degree. (English summary) **97f:14055**
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Mnëv, N. E. *see* **Lombardi, Henri; et al., 97h:14077**
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Roy, Marie Françoise *see* **Basu, Saugata; et al., 97h:14076** *and* **Lombardi, Henri; et al., 97h:14077**
Stengle, Gilbert Complexity estimates for the Schmüdgen Positivstellensatz. (English summary) **97d:14080**
Vorob'ev, N. N., Jr. *see* **Galligo, André, 97d:14079**

Items with secondary classifications in 14P10

Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie Françoise) Computing roadmaps of semi-algebraic sets (extended abstract). (English summary) (*see* **97g:68005**)
Günzel, H. The universal partition theorem for oriented matroids. (English summary) **97e:52016**
de Loera, Jesús A. (*with* Santos, Francisco) An effective version of Pólya's theorem on positive definite forms. (English summary) **97b:12001**
Pollack, Richard M. *see* **Basu, Saugata; et al.,** (**97g:68005**)
Roy, Marie Françoise (*with* Van Effelterre, T.) Aspect graphs of bodies of revolution with algorithms of real algebraic geometry. **97f:14059**
— *see also* **Basu, Saugata; et al.,** (**97g:68005**)
Santos, Francisco *see* **de Loera, Jesús A., 97b:12001**
Van Effelterre, T. *see* **Roy, Marie Françoise, 97f:14059**

14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

Acquistapace, F. (*with* Broglia, Fabrizio; Tognoli, Alberto) Smooth and analytic solutions for analytic linear systems. (English summary) **97k:14057**
Broglia, Fabrizio *see* **Acquistapace, F.; et al., 97k:14057**
Lipshitz, Leonard (*with* Robinson, Zachary) Rigid subanalytic subsets of the line and the plane. (English summary) **97e:14067**
Robinson, Zachary *see* **Lipshitz, Leonard, 97e:14067**
Tognoli, Alberto *see* **Acquistapace, F.; et al., 97k:14057**

Items with secondary classifications in 14P15

Fefferman, Charles L. (*with* Narasimhan, Raghavan) Bernstein's inequality and the resolution of spaces of analytic functions. **97b:46026**
Fu, Joseph H. G. (*with* McCrory, Clint) Stiefel-Whitney classes and the conormal cycle of a singular variety. (English summary) **97h:32009**
Gabrièlov, A. M. Complements of subanalytic sets and existential formulas for analytic functions. (English summary) **97h:32007**
McCrory, Clint *see* **Fu, Joseph H. G., 97h:32009**
Narasimhan, Raghavan *see* **Fefferman, Charles L., 97b:46026**

14P20 Nash functions and manifolds [see also 32C07, 58A07]

Coste, Michel (*with* Ruiz, Jesús M.; Shiota, Masahiro) Separation, factorization and finite sheaves on Nash manifolds. **97g:14039**
Kucharz, Wojciech (*with* Rusek, Kamil) On the ring of locally bounded Nash meromorphic functions. (English summary) **97h:14078**
Ruiz, Jesús M. *see* **Coste, Michel; et al., 97g:14039**
Rusek, Kamil *see* **Kucharz, Wojciech, 97h:14078**
Shiota, Masahiro *see* **Coste, Michel; et al., 97g:14039**

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Nowak, Krzysztof Jan On a universal axiomatization of the real closed fields. (English summary) **97j:03064**

14P25 Topology of real algebraic varieties

Bochnak, Jacek (*with* Kucharz, Wojciech) Real algebraic hypersurfaces in complex projective varieties. **97d:14081**
— (*with* Kucharz, Wojciech) A characterization of dividing real algebraic curves. **97d:14082**
Chevallier, Benoît Smoothing isolated singularities on real algebraic surfaces. (English summary) **97d:14083**
Degtyarëv, Aleksandr Igorevich (*with* Kharlamov, Viatcheslav) Topological classification of real Enriques surfaces. (English summary) **97e:14068**
El Kahoui, M'Hammed *see* **González-Vega, Laureano, 97m:14051**
Finashin, S. M. Differential-topological structure of quotient spaces of complex surfaces under complex conjugation. (Russian. Russian summary) **97j:14066**
González-Vega, Laureano (*with* El Kahoui, M'Hammed) An improved upper complexity bound for the topology computation of a real algebraic plane curve. (English summary) **97m:14051**
Itenberg, I. V. Viro's method and T-curves. **97f:14056**
— (*with* Shustin, E. I.) Real algebraic curves with real cusps. (English summary) **97b:14059**
— (*with* Viro, O. Ya.) Patchworking algebraic curves disproves the Ragsdale conjecture. **97f:14057**
— *see also* **Kharlamov, Viatcheslav, 97d:14084**
Kharlamov, Viatcheslav (*with* Itenberg, I. V.) Towards the maximal number of components of a nonsingular surface of degree 5 in $\mathbf{RP}^3$. **97d:14084**
— *see also* **Degtyarëv, Aleksandr Igorevich, 97e:14068**
Krasnov, V. A. Applications of equivariant cohomology theory in real algebraic geometry. (Russian) **97e:14069**
— On the degeneration of M-varieties. (Russian. Russian summary) **97e:14070**
Kucharz, Wojciech *see* **Bochnak, Jacek, 97d:14081** *and* **97d:14082**
Kuzmenko, T. V. (*with* Polotovskiĭ, G. M.) Classification of curves of degree 6 decomposing into a product of M-curves in general position. (English summary) **97d:14085**
Mikhalkin, G. Adjunction inequality for real algebraic curves. **97k:14058**
Nikulin, Vyacheslav Valentinovich On the topological classification of real Enriques surfaces. I. (English summary) **97d:14086**
Podkorytov, S. S. Mirror configurations of points and lines, and algebraic surfaces of degree four. (Russian. Russian summary) **97j:14067**
Polotovskiĭ, G. M. *see* **Kuzmenko, T. V., 97d:14085**
Saito, Sachiko A correspondence between topological properties of real algebraic curves and invariants of lattices with involution. (Japanese) (*see* **97c:00042**)
Shustin, E. I. Critical points of real polynomials, subdivisions of Newton polyhedra and topology of real algebraic hypersurfaces. (English summary) **97g:14040**
— *see also* **Itenberg, I. V., 97b:14059**
Viro, A. O. Differential geometry "in the large" of plane algebraic curves, and integral formulas for invariants of singularities. (Russian. Russian summary) **97m:14052**
Viro, O. Ya. Generic immersions of the circle to surfaces and the complex topology of real algebraic curves. (English summary) **97d:14087**
— *see also* **Itenberg, I. V., 97f:14057**
Wall, Charles T. C. Duality of real projective plane curves: Klein's equation. **97g:14041**
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Dimca, A. (*with* Hillman, Jonathan A.; Paunescu, Laurentiu) On hypersurfaces in real projective spaces. (English summary) **97k:57035**
Dudziński, Piotr On topological invariants mod 2 of weighted homogeneous polynomials. **97b:32053**
Hillman, Jonathan A. *see* **Dimca, A.; et al., 97k:57035**
Krasnov, V. A. The cohomological Brauer group of a real algebraic variety. (Russian. Russian summary) **97m:13004**
Kucharz, Wojciech Algebraic equivalence and homology classes of real algebraic cycles. **97e:14009**
Paunescu, Laurentiu *see* **Dimca, A.; et al., 97k:57035**
Plakoo, Justin A. Gelfand-Dikii system revisited. (English summary) **97j:58069**
Ruiz, Jesús M. Problems of algebraicity in differential topology. (Spanish) **97c:57035**

14P99 None of the above, but in this section

Alonso, Maria-Emilia *see* **Recio Muñiz, Tomás J., (97j:14003)**
Korchagin, A. B. Smoothing of 6-fold singular points and constructions of 9th degree M-curves. (English summary) **97f:14058**
(Raimondo, Mario) *see* **Tognoli, Alberto, (97j:14003)** *and* **Recio Muñiz, Tomás J., (97j:14003)**
Recio Muñiz, Tomás J. (*with* Alonso, Maria-Emilia) Mario Raimondo's contributions to computer algebra. (*see* **97j:14003**)
Tognoli, Alberto Mario Raimondo's contributions to real geometry. (*see* **97j:14003**)
Warou, H. An algorithm and bounds for the real effective Nullstellensatz in one variable. **97i:14035**
Yoshida, Masaaki Democratic compactification of configuration spaces of point sets on the real projective line. **97d:14088**

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Becker, Eberhard (*with* Powers, Victoria) Sums of powers in rings and the real holomorphy ring. **97h:12003**
Borobia, Alberto (*with* Mazurovskiĭ, V. F.) On diagrams of configurations of 7 skew lines of $\mathbf{R}^3$. (English summary) **97f:51004**
Chmutov, S. V. (*with* Duzhin, S.) Explicit formulas for Arnold's generic curve invariants. (English summary) **97j:57038**
Colliot-Thélène, Jean-Louis (*with* Scheiderer, Claus) Zero-cycles and cohomology on real algebraic varieties. (English and French summaries) **97a:14009**
Duzhin, S. *see* **Chmutov, S. V., 97j:57038**
Ferrera Cuesta, Juan (*with* de la Puente, M. J.) The asymptotic values of a polynomial function on the real plane. (English summary) **97b:26013**
Goze, Michel Étude d'un point infiniment petit et applications. [Study of an infinitely small point and applications] **97g:03063**
Khashin, Serge I. (*with* Mazurovskiĭ, V. F.) Stable equivalence of real projective configurations. (English summary) **97f:51005**
Mazurovskiĭ, V. F. *see* **Borobia, Alberto, 97f:51004** *and* **Khashin, Serge I., 97f:51005**
Powers, Victoria *see* **Becker, Eberhard, 97h:12003**
de la Puente, M. J. *see* **Ferrera Cuesta, Juan, 97b:26013**
Richter-Gebert, Jürgen Two interesting oriented matroids. (English summary) **97e:52018**
Scheiderer, Claus *see* **Colliot-Thélène, Jean-Louis, 97a:14009**
Suh, Dong Youp Quotients of real algebraic G varieties and algebraic realization problems. **97h:14067**
Wang, Shuguang On quotients of real algebraic surfaces in $\mathbf{CP}^3$. (English summary) **97j:57053**

14Qxx Computational aspects in algebraic geometry [see also 12–04, 68Q40]

Items with secondary classifications in 14Qxx

Cox, David A. (*with* Little, John B.; O'Shea, Donal) ★ Ideals, varieties, and algorithms. (English summary) **97h:13024**

Little, John B. *see* **Cox, David A.; et al., 97h:13024**
O'Shea, Donal *see* **Cox, David A.; et al., 97h:13024**

14Q05 Curves

Shihara, Kousuke Parametric representations of algebraic curves. (Japanese) (*see* **97c:00054**)

Items with secondary classifications in 14Q05

El Kahoui, M'Hammed *see* **González-Vega, Laureano, 97m:14051**
Gabrièlov, A. M. Multiplicities of zeroes of polynomials on trajectories of polynomial vector fields and bounds on degree of nonholonomy. (English summary) **97c:14055**
González-Vega, Laureano (*with* El Kahoui, M'Hammed) An improved upper complexity bound for the topology computation of a real algebraic plane curve. (English summary) **97m:14051**
Mora, Teo Gröbner duality and multiple points in linearly general position. (English summary) **97f:13030**
Reguera, Ana José Semigroups and clusters at infinity. **97h:14040**

14Q10 Surfaces, hypersurfaces

Roy, Marie Françoise (*with* Van Effelterre, T.) Aspect graphs of bodies of revolution with algorithms of real algebraic geometry. **97f:14059**
Van Effelterre, T. *see* **Roy, Marie Françoise, 97f:14059**

Items with secondary classifications in 14Q10

O'Shea, Donal Computing limits of tangent spaces: singularities, computation and pedagogy. (English summary) **97d:14003**
Rieger, J. H. On the complexity and computation of view graphs of piecewise smooth algebraic surfaces. (English summary) **97m:57046**
Schreyer, Frank-Olaf Small fields in constructive algebraic geometry. **97h:14050**

14Q15 Higher-dimensional varieties

Li, Tien-Yien (*with* Wang, Xiaoshen) The BKK root count in $\mathbf{C}^n$. (English summary) **97d:14089**
Wang, Xiaoshen *see* **Li, Tien-Yien, 97d:14089**
Wu, Jin Zhao On the algebraic variety decomposition. (English summary) **97h:14079**

Items with secondary classifications in 14Q15

Acquistapace, F. (*with* Broglia, Fabrizio; Fortuna, E.) A separation theorem in dimension 3. **97k:14056**
Broglia, Fabrizio *see* **Acquistapace, F.; et al., 97k:14056**
Fortuna, E. *see* **Acquistapace, F.; et al., 97k:14056**
Izumi, Shuzo Linear complementary inequalities for orders in analytic geometry (Łojasiewicz inequalities and strong approximation theorems). **97e:32006**
Li, Tien-Yien (*with* Wang, Tianjun; Wang, Xiaoshen) Random product homotopy with minimal BKK bound. (English summary) **97i:65091**
Wang, Tianjun *see* **Li, Tien-Yien; et al., 97i:65091**
Wang, Xiaoshen *see* **Li, Tien-Yien; et al., 97i:65091**

14Q20 Effectivity

Gabrièlov, A. M. Multiplicities of zeroes of polynomials on trajectories of polynomial vector fields and bounds on degree of nonholonomy. (English summary) **97c:14055**

14Q99 None of the above, but in this section

Berenstein, Carlos A. (*with* Yger, Alain) Residues and effective Nullstellensatz. (English summary) **97i:14036**
Hadj Abderrahmane, Benne-el-hak Conditionnement des systèmes polynomiaux aléatoires complexes. (English and French summaries) [On the average condition and separation numbers of complex random polynomial systems] **97f:14060**
Yger, Alain *see* **Berenstein, Carlos A., 97i:14036**

Items with secondary classifications in 14Q99

Alonso, María-Emilia (*with* Becker, Eberhard; Roy, Marie Françoise; Wörermann, Thorsten) Zeros, multiplicities, and idempotents for zero-dimensional systems. **97i:13027**
— *see also* **Recio Muñiz, Tomás J., (97j:14003)**
Amoroso, Francesco On a conjecture of C. Berenstein and A. Yger. **97k:13029**
Becker, Eberhard *see* **Alonso, María-Emilia; et al., 97i:13027**
Berenstein, Carlos A. (*with* Yger, Alain) Multidimensional residues and complexity problems. (English summary) **97k:32007**
de Loera, Jesús A. (*with* Santos, Francisco) An effective version of Pólya's theorem on positive definite forms. (English summary) **97b:12001**
Marijuán López, Carlos Blowing up acyclic graphs and geometrical configurations. **97h:14030**
(Raimondo, Mario) *see* **Recio Muñiz, Tomás J., (97j:14003)**
Recio Muñiz, Tomás J. (*with* Alonso, María-Emilia) Mario Raimondo's contributions to computer algebra. (*see* **97j:14003**)
Reeves, Alyson A. The radius of the Hilbert scheme. **97g:14003**
Roy, Marie Françoise *see* **Alonso, María-Emilia; et al., 97i:13027**
Santos, Francisco *see* **de Loera, Jesús A., 97b:12001**
Villamayor U., Orlando Introduction to the algorithm of resolution. **97h:14031**
Winkler, Franz ★ Polynomial algorithms in computer algebra. **97j:68063**
Wörermann, Thorsten *see* **Alonso, María-Emilia; et al., 97i:13027**
Yger, Alain *see* **Berenstein, Carlos A., 97k:32007**

15–XX Linear and multilinear algebra; matrix theory (finite and infinite)

15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Lütkepohl, Helmut ★ Handbook of matrices. (English summary) **97i:15001**

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Axler, Sheldon ★ Linear algebra done right. (English summary) **97i:15002**
Bretscher, Otto ★ Linear algebra.
Friedberg, Stephen H. (*with* Insel, Arnold J.; Spence, Lawrence E.) ★ Linear algebra.
Hannah, John A geometric approach to determinants. **97d:15001**
Hill, David R. *see* **Porter, Gerald J.**
Hong, Sungpyo *see* **Kwak, Jin Ho**
Insel, Arnold J. *see* **Friedberg, Stephen H.; et al.**
Kleinfeld, Erwin (*with* Kleinfeld, Margaret) ★ A short course in matrix theory.
— *see also* **Kleinfeld, Margaret**
Kleinfeld, Margaret (*with* Kleinfeld, Erwin) ★ Elementary linear algebra.
— *see also* **Kleinfeld, Erwin**
Kwak, Jin Ho (*with* Hong, Sungpyo) ★ Linear algebra. (English summary)
(Lang, Serge) *see* **Shakarchi, Rami**
Porter, Gerald J. (*with* Hill, David R.) ★ Interactive linear algebra. (English summary)
Rogers, Jack W., Jr. Applications of linear algebra in calculus. (English summary) **97j:15001**
Schott, James R. ★ Matrix analysis for statistics. (English summary) **97j:15002**
Shakarchi, Rami ★ Solutions manual for Lang's *Linear algebra*.
Spence, Lawrence E. *see* **Friedberg, Stephen H.; et al.**
Zhang, Fu Zhen ★ Linear algebra. (English summary) **97e:15001**

Items with secondary classifications in 15–01

(Artamonov, V. A.) *see* **Exercises in algebra**, **97f:00004**
(Kostrikin, Aleksei Ivanovich) *see* **Exercises in algebra**, **97f:00004**

Items listed otherwise than by author

Exercises in algebra ★ Exercises in algebra. **97f:00004**

15–02 Research exposition (monographs, survey articles)

Brualdi, Richard A. (*with* Shader, Bryan L.) ★ Matrices of sign-solvable linear systems. (English summary) **97k:15001**
Fleischmann, Peter (*with* Michler, Gerhard O.; Roelse, Peter; Rosenboom, Jens; Staszewski, Reiner; Wagner, Clemens; Weller, Michael) ★ Linear algebra over small finite fields on parallel machines. **97b:15001**
Michler, Gerhard O. *see* **Fleischmann, Peter; et al.**, **97b:15001**
Roelse, Peter *see* **Fleischmann, Peter; et al.**, **97b:15001**
Rosenboom, Jens *see* **Fleischmann, Peter; et al.**, **97b:15001**
Shader, Bryan L. *see* **Brualdi, Richard A.**, **97k:15001**
Staszewski, Reiner *see* **Fleischmann, Peter; et al.**, **97b:15001**
Wagner, Clemens *see* **Fleischmann, Peter; et al.**, **97b:15001**
Weller, Michael *see* **Fleischmann, Peter; et al.**, **97b:15001**

Items with secondary classifications in 15–02

Kublanovskaya, V. N. An approach to the solution of multiparameter problems. (Russian. English and Russian summaries) **97k:65066**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

Dorier, Jean-Luc Basis and dimension—from Grassmann to van der Waerden. **97m:01039**
Farebrother, Richard William Some early statistical contributions to the theory and practice of linear algebra. (English summary) **97i:01015**
Lambek, J. Corrigenda to: "If Hamilton had prevailed: quaternions in physics" [Math. Intelligencer **17** (1995), no. 4, 7–15; MR 96h:01023]. **Rowe, David E.** On the reception of Grassmann's work in Germany during the 1870's. **97k:01015**
Seidel, J. J. A sound equilibrium for linear algebra. (*see* **97a:05009**)
Shapiro, Helene Notes from Math 223: Olga Taussky Todd's matrix theory course, 1976–1977.
(Taussky-Todd, Olga) *see* **Shapiro, Helene**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 15–04

Cherkasov, T. M. *see* **Uteshev, A. Yu.**, **97e:15016**
Uteshev, A. Yu. (*with* Cherkasov, T. M.) Localization of solutions of systems of algebraic equations and inequalities. The Hermite method. (Russian) **97e:15016**

15–06 Proceedings, conferences, collections, etc.

(Hall, Frank J.) *see* **Proceedings: Conference of the International Linear Algebra Society**, **97i:15003**
(Pothen, Alex) *see* **Proceedings: Conference of the International Linear Algebra Society**, **97i:15003**
(Uhlig, Frank) *see* **Proceedings: Conference of the International Linear Algebra Society**, **97i:15003**
(Van Dooren, Paul) *see* **Proceedings: Conference of the International Linear Algebra Society**, **97i:15003**

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Atlanta, GA ★ Proceedings of the Fifth Conference of the International Linear Algebra Society. **97i:15003**
Conference:
International Linear Algebra Society ★ Proceedings of the Fifth Conference of the International Linear Algebra Society. **97i:15003**
Proceedings:
Conference of the International Linear Algebra Society ★ Proceedings of the Fifth Conference of the International Linear Algebra Society. **97i:15003**

Items with secondary classifications in 15–06

(Balakrishnan, Venkataraman) *see* **Linear matrix inequalities in control theory and applications**, **97g:93008**
(Chaitin-Chatelin, Françoise) *see* **International Linear Algebra Year**, **97c:00046**
(Hazewinkel, Michiel) *see* **Handbook: Algebra**, **97f:00006**

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Algebra ★ Handbook of algebra. Vol. 1. **97f:00006**
International Linear Algebra Year ★ International Linear Algebra Year. **97c:00046**
Linear matrix inequalities in control theory and applications ★ Linear matrix inequalities in control theory and applications. **97g:93008**
Special Issue:
Linear matrix inequalities in control theory and applications ★ Linear matrix inequalities in control theory and applications. **97g:93008**
Toulouse ★ International Linear Algebra Year. **97c:00046**
Workshop:
Linear Algebra Year ★ International Linear Algebra Year. **97c:00046**

15A03 Vector spaces, linear dependence, rank

Aharoni, Ron (*with* Linial, Nathan; Meshulam, Roy) On the trace of incompatible vectors. (English summary) **97a:15001**
Ben-Israel, Adi *see* **Miao, Jianming**, **97d:15002**
de Caen, D. On the tournament matrices with smallest rank. (English summary) **97c:15001**
Clark, W. Edwin (*with* Shekhtman, Boris) Covering by complements of subspaces. (English summary) **97c:15002**
— (*with* Shekhtman, Boris) Covering by complements of subspaces. II. (English summary) **97c:15003**
Davidson, Kenneth R. (*with* Harrison, Kenneth J.; Mueller, U. A.) Rank decomposability in incident spaces. (English summary) **97b:15002**
Daykin, David E. To find all "suitable" orders of 0, 1-vectors. (English summary) **97a:15002**
Fan, Lin Xing *see* **Shao, Jia Yu; et al.**, **97c:15005**
Groß, Jürgen Comment on range invariance of matrix products. (English summary) **97k:15002**
Gu, Wen-Xiang *see* **Lu, Tu**, **97b:15004**
Gusyatnikov, P. B. Invariant subspaces with given properties. (Russian) **97b:15003**
Harrison, Kenneth J. *see* **Davidson, Kenneth R.; et al.**, **97b:15002**
Hartwig, Robert E. (*with* Omladič, Matjaž; Šemrl, Peter; Styan, George P. H.) On some characterizations of pairwise star orthogonality using rank and dagger additivity and subtractivity. (English summary) **97c:15004**
Linial, Nathan *see* **Aharoni, Ron; et al.**, **97a:15001**
Liu, Shun Bao *see* **Xuan, Heng Nong**, **97i:15005**
Lu, Tu (*with* Gu, Wen-Xiang) Some properties of fuzzy vector spaces. (English summary) **97b:15004**
Meshulam, Roy *see* **Aharoni, Ron; et al.**, **97a:15001**
Miao, Jianming (*with* Ben-Israel, Adi) Product cosines of angles between subspaces. (English summary) **97d:15002**
Mueller, U. A. *see* **Davidson, Kenneth R.; et al.**, **97b:15002**
Omladič, Matjaž (*with* Šemrl, Peter) Matrix spaces with bounded number of eigenvalues. (English summary) **97i:15004**
— *see also* **Hartwig, Robert E.; et al.**, **97c:15004**
Rees, Elmer G. Linear spaces of real matrices of large rank. (English summary) **97d:15003**
Rieck, M. Q. Totally isotropic subspaces, complementary subspaces, and generalized inverses. (English summary) **97m:15001**
Šemrl, Peter *see* **Hartwig, Robert E.; et al.**, **97c:15004** *and* **Omladič, Matjaž**, **97i:15004**
Shao, Jia Yu (*with* Fan, Lin Xing; Xu, Xin Fu) Combinatorial structures of vector spaces. (Chinese. Chinese summary) **97c:15005**
Shekhtman, Boris *see* **Clark, W. Edwin**, **97c:15002** *and* **97c:15003**
Song, Seok-Zun On spanning column rank of matrices over semirings. **97a:15003**
Styan, George P. H. *see* **Hartwig, Robert E.; et al.**, **97c:15004**
Szulc, Tomasz Rank of convex combinations of matrices. (English and Russian summaries) **97c:15006**
Watkins, William Earl Quadratic transformations on matrices: rank preservers. (English summary) **97a:15004**
Westwick, R. Spaces of matrices of fixed rank. II. (English summary) **97g:15001**
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Xuan, Heng Nong (*with* Liu, Shun Bao) Absorbing sets. (Chinese. English and Chinese summaries) **97i:15005**
Zha, Hongyuan (*with* Zhang, Zhenyue) The Arnoldi process, short recursions, and displacement ranks. (English summary) **97k:15003**
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Banaszczyk, Wojciech *see* **Sevast'yanov, S. V., 97m:05004**
Fasoli, Maria Alessandra (*with* Pauer, Franz) On certain linear spaces of nilpotent matrices. (English summary) **97d:16037**
Havlicek, Hans (*with* Svozil, Karl) Density conditions for quantum propositions. (English summary) **97k:81020**
Horn, Roger A. (*with* Li, Chi-Kwong; Merino, Dennis I.) Distances between the graphs of matrices. (English summary) **97e:15004**
Li, Chi-Kwong *see* **Horn, Roger A.; et al., 97e:15004**
Marenich, E. E. The singularity of some relations and their combinatorial applications. (Russian. Russian summary) **97f:08001**
Merino, Dennis I. *see* **Horn, Roger A.; et al., 97e:15004**
Pauer, Franz *see* **Fasoli, Maria Alessandra, 97d:16037**
Sevast'yanov, S. V. (*with* Banaszczyk, Wojciech) To the Steinitz lemma in coordinate form. (English summary) **97m:05004**
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Tam, Bit-Shun Extreme positive operators on convex cones. (English summary) **97m:47050**

15A04 Linear transformations, semilinear transformations

Beasley, LeRoy B. (*with* Lee, Gwang-Yeon; Lee, Sang-Gu) Linear transformations that preserve the assignment. II. **97h:15001**
Benabdallah, Khalid (*with* Charles, Bernard) Orbits of invariant subspaces of algebraic linear operators. (English summary) **97a:15005**
Bol'shakov, Yu. I. Linear operators that act in spaces with an indefinite scalar product. (Russian. Russian summary) **97i:15006**
de Caen, D. Degree of indecomposability of certain highly regular zero-one matrices. (English summary) **97f:15001**
Chan, G. H. (*with* Lim, Ming Huat) Linear preservers of decomposable tensors. (English summary) **97m:15002**
Charles, Bernard *see* **Benabdallah, Khalid, 97a:15005**
Lee, Gwang-Yeon Linear transformations that preserve the assignment on $R = E_m$ and $S = (s_1, \cdots, s_n)$. **97g:15002**
— (*with* Shin, Hang-Kyun) Domination preserving linear operators over semirings. **97k:15004**
— *see also* **Beasley, LeRoy B.; et al., 97h:15001**
Lee, Sang-Gu *see* **Beasley, LeRoy B.; et al., 97h:15001**
Lešnjak, Gorazd (*with* Šemrl, Peter) Quasidirect addition of operators. (English summary) **97f:15002**
Lim, Ming Huat *see* **Chan, G. H., 97m:15002**
Rosoff, Jeffrey A. A topological proof of the Cayley-Hamilton theorem.
Šemrl, Peter *see* **Lešnjak, Gorazd, 97f:15002**
Shin, Hang-Kyun *see* **Lee, Gwang-Yeon, 97k:15004**

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de Boor, Carl (*with* Ron, Amos; Shen, Zuowei) On ascertaining inductively the dimension of the joint kernel of certain commuting linear operators. (English summary) **97k:41019**
Coelho, M. Purificação Linear preserves of the permanent on symmetric matrices. (English summary) **97k:15010**
Fang, Jin Xuan Fuzzy linear order-homomorphism and its structures. (English summary) **97c:06011**
Fung, Hon-Kwok A note on linear transformations which leave controllable multiinput descriptor systems controllable. (English summary) **97g:93020**
Gurvits, Leonid (*with* Rodman, Leiba) Convergence of polynomially bounded semigroups of matrices. (English summary) **97m:15030**
Rodman, Leiba *see* **Gurvits, Leonid, 97m:15030**
Ron, Amos *see* **de Boor, Carl; et al., 97k:41019**
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15A06 Linear equations

Chen, Guo Liang[1] (*with* Chen, Xu-Zhou) A new splitting for singular linear system and Drazin inverse. (English and Chinese summaries) **97k:15005**
Chen, Xie Xiong *see* **Wang, Ling Li; et al.**
Chen, Xu-Zhou *see* **Chen, Guo Liang[1], 97k:15005**
Hu, Chang Xing *see* **Wang, Ling Li; et al.**
Li, Shi Qun (*with* Liu, Luo Fei) Some notes on the solutions of systems of linear equations. (Chinese. English and Chinese summaries)
Liu, Luo Fei *see* **Li, Shi Qun**
Manzini, Giovanni (*with* Margara, Luciano) Minimal residual algorithm and matrix-vector information. (English summary) **97c:15007**
Margara, Luciano *see* **Manzini, Giovanni, 97c:15007**
Rost, Karla (*with* Vavřín, Zdeněk) Recursive solution of Löwner-Vandermonde systems of equations. II. (English summary) **97a:15007**
— (*with* Vavřín, Zdeněk) Recursive solution of Löwner-Vandermonde systems of equations. I. (English summary) **97a:15006**
Shen, Hua Shi (*with* Xu, You Hua) Weighted least line solutions of inconsistent systems of linear equations. (Chinese. English and Chinese summaries)
Vavřín, Zdeněk *see* **Rost, Karla, 97a:15006** *and* **97a:15007**
Wang, Ling Li (*with* Hu, Chang Xing; Chen, Xie Xiong) A duality principle for systems of multivalued modulo-algebra equations. (Chinese. English and Chinese summaries)
Xu, You Hua *see* **Shen, Hua Shi**
Zav'yalov, Yu. S. On a nonnegative solution of a system of equations with a nonstrict Jacobi matrix. (Russian. Russian summary) **97k:15006**
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Amodio, Pierluigi (*with* Paprzycki, Marcin) Parallel solution of almost block diagonal systems on a hypercube. (English summary) **97k:65063**
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Bojańczyk, Adam W. (*with* Brent, Richard P.; de Hoog, Frank R.) Stability analysis of a general Toeplitz systems solver. (English summary) **97e:65031**
Brent, Richard P. *see* **Bojańczyk, Adam W.; et al., 97e:65031**
Chaiken, Seth Oriented matroid pairs, theory and an electric application. (English summary) **97e:05058**
Chaitin-Chatelin, Françoise (*with* Gratton, S.) Convergence in finite precision of successive iteration methods under high nonnormality. (English summary) **97h:65035**
Chung, Kuo Liang (*with* Yan, Wen Ming; Wu, Jung-Gen) A parallel algorithm for solving special tridiagonal systems on ring networks. (English and German summaries) **97c:65051**
Constantinescu, Tiberiu *see* **Sayed, Ali H.; et al., 97b:30054**
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Largillier, Alain (*with* Limaye, Balmohan V.) Finite-rank methods and their stability for coupled systems of operator equations. (English summary) **97g:65120**
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Saad, Youcef (*with* Wu, Kesheng) DQGMRES: a direct quasi-minimal residual algorithm based on incomplete orthogonalization. (English summary) **97c:65066**
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15A09 Matrix inversion, generalized inverses

Badem, A. Nihat *see* **Bayhan, Mahmut**
Bayhan, Mahmut (*with* Badem, A. Nihat) On Moore-Penrose inverse and natural restrictions in the solution of linear systems. (English and Turkish summaries)
Bozkurt, Durmuş A note on Zhona's [Zhong's] inverse theorem. (English summary) **97c:15008**
Cárcel, Isabel (*with* Hervás, Antonio; Paricio, Carmen; Villanueva Micó, R. J.) Procedure for computing the Drazin inverse of a square matrix in a particular case. (Spanish) (*see* **97g:00019**)
Chen, Xu-Zhou (*with* Hartwig, Robert E.) The group inverse of a triangular matrix. (English summary) **97a:15008**
— (*with* Hartwig, Robert E.) The hyperpower iteration revisited. (English summary) **97d:15004**
Chen, Yong-Lin Finite algorithms for the (2)-generalized inverse $A^{(2)}_{T,S}$. (English summary) **97a:15009**
Chen, Yonghong (*with* Neumann, Michael) M-matrix generalized inverses of M-matrices. (English summary) **97k:15007**
Chen, Yue Hui Generalized inverses of partitioned matrices over a P-division ring. (Chinese. English and Chinese summaries) **97h:15002**
Chen, Zi Kuan Finding the synthetic discriminant function for any sample set by means of the two-step pseudoinverse method. (Chinese. English summary) **97d:15005**
Fiedler, Miroslav Moore-Penrose involutions in the classes of Laplacians and simplices. (English summary) **97e:15002**
Gibson, Peter M. Sign-nonsingular skew-symmetric matrices. (English summary) **97c:15009**
Gil', M. I. A nonsingularity criterion for matrices. (English summary) **97m:15003**
Gutknecht, Martin H. (*with* Hochbruck, Marlis) The stability of inversion formulas for Toeplitz matrices. (English summary) **97c:15010**
Hartwig, Robert E. *see* **Chen, Xu-Zhou, 97a:15008** *and* **97d:15004**
He, Chu Ning The general forms for some Penrose inverses of a complex matrix. (Chinese. English and Chinese summaries) **97a:15010**
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Hu, G. Y. (*with* O'Connell, R. F.) Analytical inversion of symmetric tridiagonal matrices. (English summary) **97b:15005**
Huang, Ting Zhu (*with* You, Zhao Yong) Properties of inverses of some classes of matrices and their applications. (Chinese. English and Chinese summaries)
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Liski, Erkki P. (*with* Wang, Songgui) On the {2}-inverse and some ordering properties of nonnegative definite matrices. (English summary) **97d:15006**
Liu, Bo Lian Maximum m.n. g-inverses of Boolean matrices. (English summary) **97a:15011**
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Pan, Yan Zhong Extensions of two theorems in the theory of Moore-Penrose generalized inverses. (Chinese. English and Chinese summaries) **97j:15004**
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Rao, K. P. S. Bhaskara Generalized inverses with respect to general norms. III. (English summary) **97b:15006**
Robinson, Donald W. The determinantal rank idempotents of a matrix. (English summary) **97f:15006**
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— General determinantal representation of pseudoinverses of matrices. (English summary) **97d:15009**
— The Moore-Penrose and group inverse of square matrices and the Jordan canonical form. (English summary) **97f:15004**
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Tsatsomeros, Michael J. *see* **McDonald, J. J.; et al., 97f:15003**
Van Barel, Marc (*with* Vavřín, Zdeněk) Inversion of a block Löwner matrix. (English summary) **97d:15010**
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Wei, Mu Sheng (*with* Zhang, Birong) Structures and uniqueness conditions of MK-weighted pseudoinverses. (English summary) **97j:15005**
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Zhang, Li Ping (*with* Wang, Yi Ju) A property characterizing the Drazin inverse. (Chinese. English and Chinese summaries)
Zheng, Dao Sheng Further study and generalization of Kahan's matrix extension theorem. (English summary) **97f:15008**
Zhuang, Wa Jin Löwner's partial ordering of generalized inverses $A\{i, \cdots, j; *\}$ of selfadjoint quaternion matrices. (Chinese. English and Chinese summaries) **97f:15009**
— The problem of monotonicity of generalized inverses of positive semidefinite selfadjoint quaternion matrices. (Chinese. English and Chinese summaries) **97g:15003**
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Boullion, Thomas L. *see* **Odell, Patrick L.**
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Chen, Xu-Zhou *see* **Chen, Guo Liang[1], 97k:15005**
Chen, Yonghong (*with* Kirkland, Stephen J.; Neumann, Michael) Nonnegative alternating circulants leading to M-matrix group inverses. (English summary) **97h:15031**
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Èl'man, Yu. S. (*with* Gohberg, Israel) Fast inversion algorithms for diagonal plus semiseparable matrices. (English summary) **97m:65057**
Èrtel', S. M. Distance matrices for points on a line, on a circle, and at vertices of an n-dimensional cube. (Russian. Russian summary) **97h:15041**
Eschenbach, Carolyn A. (*with* Hall, Frank J.; Li, Zhongshan) Some sign patterns that allow a real inverse pair B and B^{-1}. (English summary) **97k:15070**
Galba, E. F. Weighted singular decomposition and weighted pseudo-inversion of matrices. (Russian. English and Ukrainian summaries) **97k:15022**
Ghosh, Shamik Matrices over semirings. (English summary) **97d:16052**
Gichev, Dinko Parallel inversion of block tridiagonal matrices. (English summary) **97a:65031**
Gohberg, Israel *see* **Èl'man, Yu. S., 97m:65057**
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— Comment on range invariance of matrix products. (English summary) **97k:15002**
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Hartwig, Robert E. (*with* Omladič, Matjaž; Šemrl, Peter; Styan, George P. H.) On some characterizations of pairwise star orthogonality using rank and dagger additivity and subtractivity. (English summary) **97c:15004**
Kirkland, Stephen J. *see* **Chen, Yonghong; et al., 97h:15031**
Li, Zhongshan *see* **Eschenbach, Carolyn A.; et al., 97k:15070**
Miao, Jianming (*with* Ben-Israel, Adi) Product cosines of angles between subspaces. (English summary) **97d:15002**
Mond, B. (*with* Pečarić, Josip E.) Inequalities with weights for powers of generalized inverses. II. (English summary) **97i:15023**
Nambiar, K. K. Structured labels and directed paths. (English summary)
Neumann, Michael *see* **Chen, Yonghong; et al., 97h:15031**
Odell, Patrick L. (*with* Boullion, Thomas L.) Necessary and sufficient conditions for parallel summable matrices to be simultaneously diagonable. (English summary)
Omladič, Matjaž *see* **Hartwig, Robert E.; et al., 97c:15004**
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Petković, Miodrag S. Iterative methods for bounding the inverse of a matrix (a survey). (English summary) **97a:65038**
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Rieck, M. Q. Totally isotropic subspaces, complementary subspaces, and generalized inverses. (English summary) **97m:15001**
Šemrl, Peter *see* **Hartwig, Robert E.; et al., 97c:15004**
Shang, You Lin *see* **Wang, Yi Ju, 97h:15011**
Stanimirović, Predrag Computing pseudoinverses using minors of an arbitrary matrix. (English summary) **97b:65048**
Stefánsson, Jón R. Equity assessment for companies with mutual shareholdings. (Danish. English summary) **97k:90021**
Styan, George P. H. *see* **Hartwig, Robert E.; et al., 97c:15004**
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Wang, Yi Ju (*with* Shang, You Lin) Similar quasidirect sums of matrices and group inverses. (Chinese. English and Chinese summaries) **97h:15011**
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15A12 Conditioning of matrices [see also 65F35]

Amodio, Pierluigi (*with* Brugnano, Luigi) The conditioning of Toeplitz band matrices. (English summary) **97g:15004**
Brugnano, Luigi *see* **Amodio, Pierluigi, 97g:15004**

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Bruaset, Are Magnus (*with* Tveito, Aslak) A numerical study of optimized sparse preconditioners. (English summary) **97m:65062**
Carpraux, J.-F. (*with* Godunov, S. K.; Kuznetsov, Sergey Vladimirovich) Condition number of the Krylov bases and subspaces. (English summary) **97g:65098**
Chen, Guo Liang[1] *see* **Chen, Xia Bing, 97h:65055**
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Godunov, S. K. *see* **Carpraux, J.-F.; et al., 97g:65098**
Jiang, Erxiong (*with* Lam, Peter C. B.) An upper bound for the spectral condition number of a diagonalizable matrix. (English summary) **97m:65091**
Kalantari, Bahman A theorem of the alternative for multihomogeneous functions and its relationship to diagonal scaling of matrices. (English summary) **97c:90074**
Kim, Sang Dong A remark on the eigenvalue distribution of the preconditioning collocation scheme with P_3 finite element stiffness matrix. (English summary) **97k:65188**
Kuznetsov, Sergey Vladimirovich *see* **Carpraux, J.-F.; et al., 97g:65098**
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Lee, Steven L. Best available bounds for departure from normality. (English summary) **97g:65095**
Lopez, Luciano (*with* Politi, T.) Tridiagonal splittings in the conditioning and parallel solution of banded linear systems. (English summary) **97h:65042**
Nash, Stephen G. (*with* Sofer, Ariela) Preconditioning reduced matrices. (English summary) **97a:65043**
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15A15 Determinants, permanents, other special matrix functions [see also 19B10, 19B14]

Barnett, Stephen Leverrier's algorithm for orthogonal polynomial bases. (English summary) **97d:15011**

Burghduff, John Brian Minimum permanents of doubly stochastic matrices with zero main diagonal. (English summary) **97k:15009**
Cheon, Gi-Sang Upper bounds for subpermanents of nonnegative matrices. **97m:15004**
Coelho, M. Purificação On linear preservers of immanants. (English summary) **97f:15011**
— Linear preserves of the permanent on symmetric matrices. (English summary) **97k:15010**
Drury, S. W. The determinantal conjecture and Hadamard type inequalities. (English summary) **97k:15011**
Fernandes, Maria do Rosário Pairs of matrices that have the same immanant. (English summary) **97c:15011**
Fischer, Ismor (*with* Hwang, Suk-Geun) Certain nonbarycentric cohesive matrices. (English summary) **97b:15007**
Grytczuk, Aleksander Note on Wendt's determinant. **97k:15012**
Han, Jian Min Determinants in Hui Yang's triangle. (Chinese. English and Chinese summaries) **97k:15013**
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Harne, Sanjay K. (*with* Parihar, C. L.) Cramer's rule and Fibonacci sequence. (English summary)
Hartwig, Robert E. *see* **Mani, Vaidyanath, 97f:15015**
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Wu, Hao (*with* Ma, Xiao Hu) Triangular decomposition of SP • n and ISP • n matrices and inverse problems for linear equations. (Chinese. English and Chinese summaries) **97e:15010**
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Bart, Harm (*with* Kroon, Leo G.) Factorization and job scheduling: a connection via companion based matrix functions. (English summary) **97g:90063**
— (*with* Kroon, Leo G.) Companion based matrix functions: description and minimal factorization. (English summary) **97i:15011**
Blatov, I. A. On operator algebras with pseudo-sparse matrices, and their applications. (Russian. Russian summary) **97f:47043**
Bol′shakov, Yu. I. (*with* van der Mee, Cornelis V. M.; Ran, André C. M.; Reichstein, Boris; Rodman, Leiba) Polar decompositions in finite-dimensional indefinite scalar product spaces: special cases and applications. (English summary) **97e:47053**
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15A24 Matrix equations and identities

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Dobovišek, Mirko Selfadjoint solutions of matrix quadratic equations. (Slovenian. English and Slovenian summaries) **97d:15021**
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He, Chu Ning The general solution of the matrix equation $AXB + CYD = F$. (Chinese. English and Chinese summaries) **97d:15022**
— Positive definite and symmetric positive definite solutions of linear matrix equations. (Chinese. English and Chinese summaries) **97k:15034**
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Wang, Qing Wen The quaternion matrix equation $AX = B$. (Chinese. English and Chinese summaries)
— (*with* Yang, Changlan) Generalization of Roth's theorem. (English and Chinese summaries) **97b:15019**
— (*with* Xue, You Cai) The matrix equation $[X_{nn}A_{ns},\ X_{nn}B_{nl}] = [A_{ns},\ 0]$ over an arbitrary skew field. (Chinese. English and Chinese summaries) **97h:15014**
— Metapositive semidefinite solutions to the matrix equation $AXB = C$ over a strong p-division ring. (English summary) **97h:15015**
— Skewpositive (semi) definite solutions to the quaternion matrix equation $AXA^{(*)} = B$. (English summary) **97k:15035**
— *see also* **Wang, Wen Sheng[2], 97m:15028**
Wang, Shu Ning *see* **Fu, Yi Hui; et al.**
Wang, Wen Sheng[2] (*with* Wang, Qing Wen) The matrix equation $AX = B$ and metapositive (semi)definite minor self-conjugate partitioned matrices. (Chinese. English and Chinese summaries) **97m:15028**
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Chen, Yi Yuan[2] *see* **Wang, Zhong Shan; et al.**
Domokos, M. Criteria for vanishing of Eulerian polynomials on $n \times n$ matrices. (English summary) **97b:16027**
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Guo, Kai Zhong The existence of true solutions for fuzzy error 2-1 matrix equations and methods for their solution. (Chinese. English and Chinese summaries)
Hanzon, Bernard (*with* Peeters, Ralf L. M.) A Faddeev sequence method for solving Lyapunov and Sylvester equations. (English summary) **97m:65068**
Huang, Li Ping[3] The solvability of linear matrix equations over a central simple algebra. (English summary) **97e:16041**
Juang, Jong Existence for a matrix equation arising in microelectronics. (English summary) **97a:94010**
Kang, Taesam (*with* Kim, Byung Soo[2]; Lee, Jang Gyu) Spectral norm and trace bounds of algebraic matrix Riccati equations. (English summary) **97k:93029**
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Lancaster, Peter (*with* Rodman, Leiba) ★ Algebraic Riccati equations. **97b:93003**
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Levy, Bernard C. *see* **Ferrante, Augusto, 97m:93071**
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Wang, Jin-Hsien Product of invertible operators of quadratic type. (English summary) **97i:47031**
Wang, Qing Wen Pairwise matrix decompositions and matrix equations over an arbitrary skew field. (Chinese. English and Chinese summaries) **97i:15018**
Wang, Zhong Shan (*with* Chen, Yi Yuan[2]; Liu, Zheng Lin) A method for solving matrix equations over completely distributive complete lattices. (Chinese. English and Chinese summaries)

15A27 Commutativity

Items with secondary classifications in 15A27

Bevilacqua, Roberto (*with* Zellini, Paolo) Structure of algebras of commutative matrices. (English summary) **97b:15035**
George, Alan (*with* Ikramov, Kh. D.) On Hankel matrices that commute with tridiagonal matrices. (Russian. Russian summary) **97f:15047**
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15A30 Algebraic systems of matrices [see also 16S50, 20Gxx, 20Hxx]

Di Fiore, Carmine (*with* Zellini, Paolo) Matrix decompositions using displacement rank and classes of commutative matrix algebras. (English summary) **97b:15020**
Feng, Rong-quan *see* **Gao, Jia-fu; et al., 97c:15024**
Gao, Jia-fu (*with* Wan, Zhe Xian; Feng, Rong-quan; Wang, Dian-jun) Geometry of symmetric matrices and its applications. III. (English summary) **97c:15024**
Gurvits, Leonid (*with* Rodman, Leiba) Convergence of polynomially bounded semigroups of matrices. (English summary) **97m:15030**
Jain, Surender Kumar (*with* Mitra, Sujit Kumar; Werner, Hans-Joachim[1]) Extensions of $\mathscr{G}$-based matrix partial orders. (English summary) **97g:15017**
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Wan, Zhe Xian Geometry of matrices. **97h:15017**
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Bevilacqua, Roberto (*with* Zellini, Paolo) Structure of algebras of commutative matrices. (English summary) **97b:15035**
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Stolarsky, Kenneth B. Positive factors of Wythoff matrices. **97g:11024**
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15A33 Matrices over special rings (quaternions, finite fields, etc.)

Bruen, Aiden (*with* Wehlau, David; Zhang, Zhao Ji) Unimodular matrices and Parsons numbers. **97d:15024**
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Cao, Chong Guang (*with* Zhang, Xian[2]) Additive operators preserving idempotent matrices over fields and applications. (English summary) **97h:15018**
Chen, Bao Xing Some trace inequalities for weakly positive semidefinite matrices of quaternions. (Chinese. English and Chinese summaries) **97f:15032**
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Culler, Kristen W. (*with* Price, Geoffrey L.) On the ranks of skew-centrosymmetric matrices over finite fields. (English summary) **97g:15018**
Feng, Ci Huang Some properties of centralizable quaternion matrices. (Chinese. English and Chinese summaries) **97f:15033**
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Hong, Shao Fang *see* **Li, Wen[1]; et al., 97k:15037**
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— The quaternion matrix convex function and its inequalities. (English and Chinese summaries)
— (*with* Cai, Yongyu) Real valued determinant of quaternion matrix. (English summary) **97d:15025**
Li, Tao Sheng Eigenvalues and eigenvectors of quaternion matrices. (Chinese. English and Chinese summaries) **97a:15030**
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Li, Wen Liang (*with* Chen, Ze An) Some inequalities for the trace of the convolution of self-conjugate quaternion matrices. (Chinese. English and Chinese summaries)
— Extensions to quaternion matrices of some famous inequalities. (Chinese. English and Chinese summaries) **97m:15031**
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Hirschfeld, J. W. P. The main conjecture for MDS codes. (*see* **97b:94002**)
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van Wyk, Leon Matrix rings satisfying column sum conditions versus structural matrix rings. (English summary) **97j:16044**
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15A36 Matrices of integers [see also 11C20]

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15A39 Linear inequalities

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Fu, Yi Hui (*with* Wang, Shu Ning; Dai, Jian She) An explicit algebraic solution of the linear matrix inequality $A_0 + \sum_{i=1}^{K} x_i A_i > 0$. (Chinese. English and Chinese summaries) **97k:15038**
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16–06 Proceedings, conferences, collections, etc.

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16Bxx General and miscellaneous

16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [see also 18–XX]

Bergman, George M. (*with* Hausknecht, Adam O.) ★ Co-groups and co-rings in categories of associative rings. (English summary) **97k:16001**
Hausknecht, Adam O. *see* **Bergman, George M., 97k:16001**
Zvyagina, M. B. A theorem on local duality for categories of modules. (Russian. Russian summary) **97b:16002**

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Colpi, Riccardo (*with* Trlifaj, Jan) Tilting modules and tilting torsion theories. (English summary) **97e:16003**
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Pancar, Ali Coprojectively and coinjectively generated classes. (English and Turkish summaries) **97j:16004**
Trlifaj, Jan *see* **Colpi, Riccardo, 97e:16003**
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16B70 Applications of logic [see also 03Cxx]

Popov, Vladimir Yur'evich On equational theories of varieties of metabelian and commutative rings. (Russian. Russian summary) **97i:16001**

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Pritchard, F. Leon The ideal membership problem in non-commutative polynomial rings. (English summary) **97j:16043**
Zamyatin, A. P. Pseudovarieties of associative rings: linearity congruence and decidability. (Russian) **97f:16043**

16B99 None of the above, but in this section

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16Dxx Modules, bimodules and ideals

16D10 General module theory

Chen, Zhi Zhong On extending modules. (*see* **97a:16001**)
Clark, John (*with* Smith, Patrick F.) On semi-Artinian modules and injectivity conditions. (English summary) **97f:16001**
Dauns, John Semiprime torsion free rings. **97h:16001**
Golan, Jonathan S. P-classes of modules and the topologies they define. **97d:16002**
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Khan, M. Zubair (*with* Singh, Surjeet; Rafiquddin, M.) On h-pure submodules of QTAG-modules. (English summary) **97e:16007**
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Wu, Tong Suo The problem of weak cancellation in modules and qu-regular rings. (Chinese. English and Chinese summaries) **97h:16011**

16D15 1-sided ideals

Andrunakievich, V. A. (*with* Ryabukhin, Yu. M.) On reduced right ideals of a ring. (English, Russian and Moldavian summaries) **97d:16003**
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Tsutsui, Hisaya Fully prime rings. II. (English summary) **97e:16002**

16D20 Bimodules

Beg, Afzal On ideals in restricted balanced rings. **97g:16003**
Colpi, Riccardo (*with* Trlifaj, Jan) Tilting modules and tilting torsion theories. (English summary) **97e:16003**
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Vossieck, Dieter Bimodules de type matriciel fini sur des algèbres locales. (English and French summaries) [Matrix-finite bimodules over pairs of local algebras] **97d:16004**

16D25 2-sided ideals

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16D30 Maximal and prime 2-sided ideals [see also 16N60, 16D60], simple rings (except as in 16Kxx)

Abulkheir, Hamed E. (*with* Birkenmeier, Gary F.) Prime ideals in right complement bounded rings. (English summary) **97e:16004**
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16D40 Free, projective, and flat modules and ideals [see also 18G05, 19A13]

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Caldero, Philippe (*with* Perets, Gadi S.) Invariants pour l'action d'un groupe fini sur l'algèbre enveloppante d'une algèbre de Lie semi-simple. (French summary) [Invariants under a finite-group action on the enveloping algebra of a semisimple Lie algebra] **97c:17009**
Drozd, Yu. A. (*with* Guzner, Boris L.; Ovsienko, S. A.) Weight modules over generalized Weyl algebras. **97g:16040**
Goodearl, K. R. (*with* Lenagan, T. H.) Catenarity in quantum algebras. (English summary) **97e:16054**
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Kharchenko, V. K. Derivations of prime rings of positive characteristic. (Russian. Russian summary) **97j:16052**
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Zhu, Hong Xin Algebraic structures on the categories of representations of triangular Hopf algebras. (Chinese. Chinese summary) **97a:16079**

16S32 Rings of differential operators [see also 13N10, 32C38]

Cannings, R. C. (*with* Holland, M. P.) Rings of operators on modules over commutative rings and their right ideals. (English summary) **97k:16034**
El boufi, Bouchaïb Idéaux à droite réflexifs dans l'algèbre des opérateurs différentiels. [Reflexive right ideals in the algebra of differential operators] **97c:16031**
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Oaku, Toshinori Algorithmic aspects of D-modules. (English summary) (*see* **97c:00055**)
Radyno, N. Ya. On an extension of algebras with differentiation. (Russian) (*see* **97g:00017**)
Rigal, Laurent Spectre de l'algèbre de Weyl quantique. (English summary) [Spectrum of the quantized Weyl algebra] **97e:16061**
Schwarz, Gerald W. Invariant differential operators. **97m:16049**
Van den Bergh, Michel Some rings of differential operators for Sl_2-invariants are simple. (English summary) **97c:16032**
Zhelobenko, D. P. Differential operators in graded algebras. (Russian. Russian summary) **97f:16046**

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Bavula, V. V. Global dimension of generalized Weyl algebras. (English summary) **97e:16018**
— Filter dimension of algebras and modules, a simplicity criterion of generalized Weyl algebras. **97e:16089**
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Chen, Cao Yu Derivations on differential operator algebra and Weyl algebra. (English summary) **97k:17010**
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Levasseur, T. (*with* Stafford, J. T.) The kernel of an homomorphism of Harish-Chandra. (English summary) **97b:22019**
Lychagina, O. V. Poisson structures associated with algebras of differential operators. (Russian. Russian summary) **97j:58159**
Maynadier, Hélène Équations fonctionnelles pour une intersection complète quasi-homogène à singularité isolée. (English and French summaries) [Functional equations for a weighted-homogeneous isolated complete intersection singularity] **97e:32043**
Mouwad, Hussein (*with* Van Oystaeyen, Freddy M. J.) Discrete valuations extend to certain algebras of quantum type. **97b:16036**
Oaku, Toshinori Algorithms for b-functions, induced systems, and algebraic local cohomology of $\mathcal{D}$-modules. **97h:32016**
— Gröbner bases for D-modules on a non-singular affine algebraic variety. (English summary) **97h:14037**
Radwan, Ahmed E. Zariski filtered sheaves. (English summary) **97h:16057**
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16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

Aviñó Díaz, María Alicia (*with* Bautista Ramos, Raymundo) The additive structure of indecomposable $Z_{p^r}C_p$-modules. **97c:16033**
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Cedó, Ferran The maximal quotient rings of regular group rings. III. (English summary) **97d:16036**
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Kawai, Hideyasu A note on isomorphisms of commutative group algebras. **97k:16035**
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Kurdics, J. On group algebras with metabelian unit groups. (English summary) **97h:16035**
— Engel properties of group algebras. I. (English summary) **97k:16036**
Park, Won-Sun On the group rings of the Klein's four group. (English summary)
— On the group ring KZ_2.
Passi, I. B. S. Idempotents in matrix group rings. (English summary) (*see* **97e:00007**)
Passman, Donald S. Semiprimitivity of group algebras of locally finite groups. (English summary) **97b:16029**
— Semiprimitivity of group algebras of locally finite groups. II. (English summary) **97b:16030**
— Ultraproducts and the group ring semiprimitivity problem. (English summary) **97f:16048**
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Vasantha Kandasamy, W. B. On ideally strong group rings.

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Ameziane Hassani, Souâd (*with* Fontana, Marco; Kabbaj, Salah-Eddine) Group rings $R[G]$ with 3-generated ideals when R is Artinian. **97b:13025**
de Barros, Luiz G. X. (*with* Juriaans, Stanley O.) Units in integral loop rings. (English summary) **97d:20090**
Bovdi, A. A. On the group of units in modular group algebras. (English summary) **97h:16039**
— (*with* Làngi, T. P.) On the regularity of group algebras. (English summary) **97g:16013**
— Free subgroups of the group of units in group algebras. (English summary) **97j:16047**
Bovdi, V. A. (*with* Kovács, L. G.; Sehgal, Sudarshan K.) Symmetric units in modular group algebras. (English summary) **97a:16064**
Brookes, C. J. B. (*with* Groves, J. R. J.) Modules over nilpotent group rings. **97f:20009**
Chadha, Gurmeet K. Idempotents in non-Archimedean group rings. **97a:20005**
Chen, Huan Gen (*with* Tong, Wen Ting) The abelian group $X\mathcal{S}^2(R)$ and 2-PSF rings. (Chinese. Chinese summary) **97j:16060**
Coelho, Sônia P. (*with* Jespers, Eric; Polcino Milies, César) Automorphisms of group algebras of some metacyclic groups. (English summary) **97h:16040**
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— (*with* Gonçalves, Jairo Z.) Semigroup identities on units of integral group rings. (English summary) **97k:16047**

Erdmann, Karin On Auslander-Reiten components for group algebras. (English summary) **97g:16026**
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— (*with* Sehgal, Sudarshan K.; Valenti, Angela) Group algebras whose units satisfy a group identity. (English summary) **97f:16056**
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— *see also* **Dokuchaev, M. A., 97k:16047**
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Ivanov, D. N. Automorphisms of orthogonal decompositions and of group algebras of decomposable groups. (Russian. Russian summary) **97g:20006**
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— *see also* **Coelho, Sônia P.; et al., 97h:16040**
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16S35 Twisted and skew group rings, crossed products

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Mikhovski, S. V. (*with* Dimitrova, J. M.) Isomorphic crossed products of up-groups and rings. **97c:16035**
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Fein, Burton (*with* Saltman, David J.; Schacher, Murray) Embedding division algebras in crossed products. **97f:16034**
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Liedahl, Steven *see* **Girnius, Zara, 97j:11054**
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Szeto, George (*with* Wong, Yuen-Fat) Azumaya algebras in skew group rings. (English summary) **97m:16028**
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Wilson, Mark C. Crossed products of restricted enveloping algebras. (English summary) **97k:17029**
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16S36 Ordinary and skew polynomial rings and semigroup rings [see also 20M25]

Abrams, Gene (*with* Menini, Claudia) Skew semigroup rings. (English summary) **97g:16038**
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Camillo, Victor What lifts? (English summary)
Drozd, Yu. A. (*with* Guzner, Boris L.; Ovsienko, S. A.) Weight modules over generalized Weyl algebras. **97g:16040**
Ferrero, Miguel A. Prime and maximal ideals in polynomial rings. (English summary) **97c:16036**
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Jordan, David A. (*with* Wells, Imogen E.) Invariants for automorphisms of certain iterated skew polynomial rings. (English summary) **97k:16038**
Kamal, Ahmed A. M. Strongly Ore invariant rings. (English summary) **97a:16057**
Kelarev, A. V. On a description of the radicals of semigroup rings of commutative semigroups. (Russian) **97e:16065**
Leroy, André (*with* Matczuk, Jerzy) Primitivity of skew polynomial and skew Laurent polynomial rings. (English summary) **97k:16039**
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Matczuk, Jerzy Maximal ideals of skew polynomial rings of automorphism type. (English summary) **97a:16058**
— *see also* **Leroy, André, 97k:16039**
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Zhang, Sheng Gui[1] The polynomial ring over a self-injective ring. (Chinese. English and Chinese summaries)

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Al-Zaid, Hassan (*with* Singh, Surjeet) Invariance of recurrence sequences under a Galois group. (English summary) **97c:11012**
Bavula, V. V. Tensor homological minimal algebras, global dimension of the tensor product of algebras and of generalized Weyl algebras. (English summary) **97f:16015**
Brungs, Hans-Heinrich (*with* Schröder, Martin) Extending valuation rings to $K(x, \sigma)$. **97m:16032**
Crabb, M. J. (*with* Munn, W. D.) On the algebra of a free inverse monoid. **97h:20076**
Figueiredo, L. M. V. (*with* Gonçalves, Jairo Z.; Shirvani, M.) Free group algebras in certain division rings. (English summary) **97j:16030**
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Gateva-Ivanova, Tatiana Skew polynomial rings with binomial relations. (English summary) **97m:16047**
Gonçalves, Jairo Z. *see* **Figueiredo, L. M. V.; et al., 97j:16030**
Huh, Chan (*with* Kim, Chol On) Gelfand-Kirillov dimension of skew polynomial rings of automorphism type. **97d:16033**
Kim, Chol On *see* **Huh, Chan, 97d:16033**
Li, Fang The regularity of Munn rings and semigroup rings. (English summary) **97m:16013**
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Osborn, J. Marshall (*with* Passman, Donald S.) Derivations of skew polynomial rings. (English summary) **97i:16030**
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Rigal, Laurent Spectre de l'algèbre de Weyl quantique. (English summary) [Spectrum of the quantized Weyl algebra] **97e:16061**
Rosen, Jerry D. (*with* Rosen, Mary Peles) The extended center of a skew power series ring. (English summary) **97i:16027**
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Van Oystaeyen, Freddy M. J. (*with* Willaert, Luc) Valuations on extensions of Weyl skew fields. (English summary) **97e:16044**
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Yoshida, Ken-ichi[1] (*with* Matsuda, Ryûki) Note on almost Krull semigroup rings. **97h:13015**

Zhang, James J. A note on GK dimension of skew polynomial extensions. (English summary) **97d:16034**

16S40 Smash products of general Hopf actions [see also 16W30]

Chen, Hui Xiang H^*-rational modules and the right smash product $A\#_H^R H^*$. (Chinese. English and Chinese summaries)

— Ideals of smash products of Hopf comodule algebras. (Chinese. English summary) **97f:16049**

Chen, Jia Nai *see* **Yang, Shi Lin, 97m:16051**

Liu, Gui Long Some smash products constructed from inner actions and inner coactions. (Chinese. English and Chinese summaries) **97k:16040**

Ştefan, Dragoş Cohomology of Hopf algebras and the Clifford's extension problem. **97k:16041**

Yang, Shi Lin (*with* Chen, Jia Nai) Hopf actions on factor rings and induced Hopf actions. (English summary) **97m:16051**

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Beattie, Margaret (*with* del Rio Mateos, Angel) The Picard group of a category of graded modules. (English summary) **97j:16058**

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Dăscălescu, S. *see* **Caenepeel, S.; et al., 97j:16053**

Lepowsky, James (*with* Wilson, Robert Lee) On Hopf algebras and the elimination theorem for free Lie algebras. (English summary) **97a:16072**

Liu, Gui Long Hopf algebra actions and Morita contexts. **97h:16050**

— Bicrossed products of Hopf algebras. (Chinese. English and Chinese summaries) **97g:16052**

— Morita theorems for Hopf comodule coalgebras. **97e:16081**

Lu, Jiang-Hua Hopf algebroids and quantum groupoids. (English summary) **97a:16073**

Militaru, Gigel From graded rings to actions and coactions of Hopf algebras. **97a:16074**

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16S50 Endomorphism rings: matrix rings [see also 15–XX]

Abrams, Gene (*with* Menini, Claudia) Rings of endomorphisms of semigroup-graded modules. (English summary) **97g:16041**

Agnarsson, Geir On a class of presentations of matrix algebras. **97m:16052**

Camps, Rosa (*with* Facchini, Alberto; Puninskiĭ, G. E.) Serial rings that are endomorphism rings of Artinian modules. **97k:16042**

Cao, Chong Guang *see* **Zhang, Xian**[2]

Chen, Huan Gen Matrix structures over connected rings.

Davies, Roy O. (*with* Drazin, Michael P.; Roberts, Mark L.) Universal properties of infinite matrices. **97a:16059**

Dibag, I. Duality for ideals in the Grassmann algebra. (English summary) **97e:16066**

Drazin, Michael P. *see* **Davies, Roy O.; et al., 97a:16059**

Facchini, Alberto *see* **Camps, Rosa; et al., 97k:16042**

Fasoli, Maria Alessandra (*with* Pauer, Franz) On certain linear spaces of nilpotent matrices. (English summary) **97d:16037**

Fiticoni, Theodore G. Modules over endomorphism rings as homotopy classes. **97d:16038**

Feigelstock, Shalom Full subrings of E-rings. (English summary) **97i:16021**

Files, Steve T. Endomorphism algebras of modules with distinguished torsion-free elements. **97e:16067**

García Hernández, José Luis (*with* Marín, Leandro) An extension of a theorem on endomorphism rings and equivalences. **97i:16022**

Göbel, Rüdiger (*with* May, Warren) Endomorphism algebras of peak I-spaces over posets of infinite prinjective type. (English summary) **97k:16043**

Khuri, Sounaya M. P-injective endomorphism rings. **97h:16037**

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Valenti, Angela Matrix algebras with transpose or symplectic involution and their $*$-polynomial identities. (English summary) **97f:16050**

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— Matrix rings satisfying column sum conditions versus structural matrix rings. (English summary) **97j:16044**

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Zhang, Xian[2] (*with* Cao, Chong Guang) Linear operators preserving involutions of upper triangular matrices over commutative integral domains. (Chinese. English and Chinese summaries)

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16U80 Generalizations of commutativity

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16Wxx Rings and algebras with additional structure

16W10 Rings with involution: Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

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Ben Yakoub, L'Moufadal (*with* Malliavin, Marie-Paule) Caractérisation des dérivations intérieures de l'algèbre de Weyl et de l'algèbre d'Heisenberg quantiques. (English summary) [Characterization of the inner derivations of the quantum Heisenberg and Weyl algebras] **97j:16050**

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— Corrigendum: "Uniqueness of Hopf Galois structure for separable field extensions". **97j:16051b**
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17–XX Nonassociative rings and algebras

17–02 Research exposition (monographs, survey articles)

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Jurisich, Elizabeth An exposition of generalized Kac-Moody algebras. (English summary) **97e:17035**

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17–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 17–04

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17–06 Proceedings, conferences, collections, etc.

(Kang, Seok-Jin) *see* **Lie algebras and their representations, 97a:17001**

(Kim, Myung-Hwan[1]) *see* **Lie algebras and their representations, 97a:17001**

(Lee, In-Sok) *see* **Lie algebras and their representations, 97a:17001**

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Lie algebras and their representations ★ Lie algebras and their representations. **97a:17001**

Lusztig program ★ Lusztig program. **97m:17001**

Seoul ★ Lie algebras and their representations. **97a:17001**

Symposium:

Lie Algebras and Representation Theory ★ Lie algebras and their representations. **97a:17001**

Lusztig Program ★ Lusztig program. **97m:17001**

Items with secondary classifications in 17–06

(Arima, A.) *see* **Group theoretical methods in physics, 97d:00023**

Donagi, Ron (*with* Dubrovin, B. A.; Frenkel, Edward; Previato, Emma) ★ Integrable systems and quantum groups. **97b:58001**

Dubrovin, B. A. *see* **Donagi, Ron; et al., 97b:58001**

(Eguchi, Tohru) *see* **Group theoretical methods in physics, 97d:00023**

(Fong, Yuen) *see* **Workshop: Algebra, 97j:00024**

(Francaviglia, Mauro) *see* **Donagi, Ron; et al., 97b:58001**

Frenkel, Edward *see* **Donagi, Ron; et al., 97b:58001**

(Greco, Silvio) *see* **Donagi, Ron; et al., 97b:58001**

(Helminck, G. F.) *see* **Representations of Lie groups, Lie algebras and their quantum analogues, 97c:17027**

(Knauer, Ulrich) *see* **Workshop: Algebra, 97j:00024**

(Kostrikin, Aleksei Ivanovich) *see* **Algebra, 97a:00047**

(Mikhalëv, A. V.) *see* **Workshop: Algebra, 97j:00024**

(Nakanishi, Noboru) *see* **Group theoretical methods in physics, 97d:00023**

(Ørsted, Bent) *see* **Algebraic and analytic methods in representation theory, 97d:00014**

Previato, Emma *see* **Donagi, Ron; et al., 97b:58001**

(Schlichtkrull, Henrik) *see* **Algebraic and analytic methods in representation theory, 97d:00014**

(Shafarevich, I. R.) *see* **Algebra, 97a:00047**

(Zassenhaus, Hans) *see* **Group theory, algebra, and number theory, 97i:00017**

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Group Theoretical Methods in Physics ★ Group theoretical methods in physics. **97d:00023**

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Conference:

Yamada ★ Group theoretical methods in physics. **97d:00023**

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17–08 Computational methods

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17Axx General nonassociative rings

17A01 General theory

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Yoon, Suk Im Idempotent elements in the Lotka-Volterra algebra. **97m:17002**

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17A05 Power-associative

Ouattara, Moussa Sur une classe d'algèbres à puissances associatives. (English summary) [On a class of power-associative algebras] **97c:17001**

17A10 Commutative power-associative

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17A30 Algebras satisfying other identities

Acosta G., Lorenzo Finite-dimensional Moufang algebras. (Spanish. Spanish summary) **97b:17001**

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— *see also* **Yen, Chêng Tê**

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17A35 Division algebras

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Items with secondary classifications in 17A35

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17A36 Automorphisms, derivatives, other operators

Yen, Chêng Tê Rings with a Jordan derivation whose image is contained in the nuclei or commutative center. (English summary) **97k:17003**

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— (*with* Varro, Richard) Dérivations dans les algèbres de Walcher. (French summary) [Derivations in Walcher algebras] **97d:17020**
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Varro, Richard *see* **Mallol, Cristián, 97d:17020**
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17A40 Ternary compositions

Abramov, Viktor Ternary generalizations of Grassmann algebra. (English and Estonian summaries) **97m:17007**
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Smith, Jonathan D. H. *see* **Rossmanith, Richard, 97h:17004**
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17A42 Other n-ary compositions

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17A45 Quadratic algebras (but not quadratic Jordan algebras)

Items with secondary classifications in 17A45

Firstov, V. V. *see* **Varaksin, O. L.; et al., 97b:58155** *and* **97b:58157**
Shapovalov, A. V. (*with* Shirokov, I. V.) A noncommutative integration method for linear differential equations. Function algebras and noncommutative dimensional reduction. (Russian. English and Russian summaries) **97d:58210**
— *see also* **Varaksin, O. L.; et al., 97b:58155** *and* **97b:58157**
Shirokov, I. V. *see* **Varaksin, O. L.; et al., 97b:58155**; **97b:58157** *and* **Shapovalov, A. V., 97d:58210**
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17A65 Radical theory

Leavitt, W. G. Matric-extensible radicals. **97i:17001**

17A75 Composition algebras

Elduque, Alberto (*with* Pérez, José María) Composition algebras with associative bilinear form. **97b:17006**
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17A99 None of the above, but in this section

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Bergen, Jeffrey (*with* Grzeszczuk, Piotr) Gradings, derivations, and automorphisms of nearly associative algebras. (English summary) **97e:17004**
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17Bxx Lie algebras {For Lie groups, see 22Exx.}

Carter, R. W. (*with* Segal, Graeme; Macdonald, Ian G.) ★ Lectures on Lie groups and Lie algebras. (English summary) **97f:17002**
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17B01 Identities, free Lie algebras

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Cortés, Teresa *see* **Anquela, José A., 97a:16070**
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— (*with* Kim, Myung-Hwan[1]) Free Lie algebras, generalized Witt formula, and the denominator identity. (English summary) **97e:17042**
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Lepowsky, James (*with* Wilson, Robert Lee) On Hopf algebras and the elimination theorem for free Lie algebras. (English summary) **97a:16072**
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17B30 Solvable, nilpotent algebras

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Mikhalëv, A. A. (*with* Umirbaev, U. U.; Zolotykh, A. A.) A Lie algebra with cohomological dimension one over a field of prime characteristic is not necessarily free. (English summary) **97m:17024**
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17B55 Homological methods in Lie algebras

Fialowski, Alice On the cohomology of the Lie algebra L_2. (English summary) **97b:17013**
Gao, Yun[1] Steinberg unitary Lie algebras and skew-dihedral homology. **97b:17014**
Nakano, Daniel K. Complexity and support varieties for finite-dimensional algebras. (English summary) **97c:17031**
Sigg, Stefan Laplacian and homology of free two-step nilpotent Lie algebras. (English summary) **97i:17014**

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Gel'fand, Izrail' Moiseevich (*with* Smirnov, Mikhail M.) Chern-Simons classes and cocycles on the Lie algebra of the gauge group. (English summary) **97g:58025**
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Armstrong, Grant F. (*with* Sigg, Stefan) On the cohomology of a class of nilpotent Lie algebras. (English summary) **97k:17030**
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El Khamlichi, L. (*with* Haddi, A.) On braided homology. (*see* **97g:13001**)
Ginzburg, Viktor L. Momentum mappings and Poisson cohomology. (English summary) **97g:17022**
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Kostant, Bertram Flag manifold quantum cohomology, the Toda lattice, and the representation with highest weight ρ. **97e:17029**
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— (*with* McCarthy, James G.; Pilch, Krzysztof) ★ The $\mathcal{W}_3$ algebra. (English summary) **97m:17029**
Bureš, Jaroslav Special invariant operators. I. (English summary) **97f:53043**
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Feldvoss, Jörg Homological topics in the representation theory of restricted Lie algebras. (English summary) **97e:17026**
Goze, Michel (*with* Khakimdjanov, Yusupdjan) ★ Nilpotent Lie algebras. (English summary) **97e:17017**
van den Hijligenberg, N. W. *see* **Post, Gerhard, 97g:17006**
Hilton, Peter (*with* Stammbach, U.) ★ A course in homological algebra. **97k:18001**

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17B60 Lie rings associated with other structures (associative, Jordan, etc.) [see also 15A30, 16W10, 17C40, 17C50]

Allison, Bruce N. (*with* Gao, Yun[1]) Central quotients and coverings of Steinberg unitary Lie algebras. (English summary) **97f:17022**
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Kubo, Fujio Finite-dimensional non-commutative Poisson algebras. (English summary) **97k:17031**

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Baranovich, A. M. (*with* Daletskiĭ, Yuriĭ L'vovich) Differential-geometric relations for a class of formal operator power series. (English summary) **97h:58012**
Billig, Yu. V. (*with* Pianzola, Arturo) Free groups of Lie type. (English summary) **97j:20027**
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Daletskiĭ, Yuriĭ L'vovich *see* **Baranovich, A. M., 97h:58012**
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17B65 Infinite-dimensional Lie algebras [see also 22E65]

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Enriquez, Benjamin (*with* Rubtsov, V. V.) Compatible Poisson-Lie structures on the loop group of sl_2. (English summary) **97j:17023**
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Pan, Zu Liang (*with* Yang, Qing Jian; Zheng, Ke Jie) An infinite-dimensional Lie algebra associated with nonlinear diffusion equation and Thompson equation. (English and Chinese summaries) **97e:17030**
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Bergvelt, M. J. (*with* ten Kroode, A. P. E.) Partitions, vertex operator constructions and multi-component KP equations. (English summary) **97c:58061**
Bezrukavnikov, Roman The dimension of the fixed point set on affine flag manifolds. **97e:17024**
Chen, Deng-yuan (*with* Zhang, Da-jun) Lie algebraic structures of $(1+1)$-dimensional Lax integrable systems. (English summary) **97m:58089**
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Lagno, G. O. Reduction of a six-dimensional wave equation according to the subalgebras of the direct sum of Euclidean algebras. (Ukrainian. English summary) **97b:58153**
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Bruce, S. (*with* Salgado, Patricio) Affine realizations of sphere algebras. (English summary)
González-López, Artemio (*with* Kamran, Niky; Olver, Peter J.) Real Lie algebras of differential operators and quasi-exactly solvable potentials. (English summary) **97e:17031**
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Kori, Tosiaki Lie algebra of the infinitesimal automorphisms on S^3 and its central extension. **97b:17015**
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Lagno, V. I. On new representations of the Poincaré and Euclidean groups. (Ukrainian. English summary) **97m:17026**
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Krasil'shchik, I. S. A supersymmetry approach to Poisson structures over differential equations. (English summary) **97g:58185**
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17B67 Kac-Moody algebras (structure and representation theory)

Adamović, Dražen New irreducible modules for affine Lie algebras at the critical level. **97f:17024**
Allison, Bruce N. (*with* Azam, Saeid; Berman, Stephen; Gao, Yun[1]; Pianzola, Arturo) Extended affine Lie algebras and their root systems. (English summary) **97i:17015**
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Hamada, Mitsuto (*with* Kanno, Hiroaki; Ogura, Kazunori; Okamoto, Kiyosato; Togoshi, Yuichiro) The fundamental representation of the affine Lie algebra $A_{n-1}^{(1)}$ and the Feynman path integral. (English summary) **97e:17034**

Jin, Yi Dong (*with* Zhang, Zhi Xue) Weight chains and weight sets of generalized Kac-Moody algebra modules. (Chinese) **97c:17038**

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de Montigny, Marc Graded contractions of affine Lie algebras. (English summary) **97e:17037**

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Nikulin, Vyacheslav Valentinovich Reflection groups in Lobachevskiĭ spaces and an identity for the denominator of Lorentzian Kac-Moody algebras. (Russian. Russian summary) **97f:17026**

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Papi, Paolo Convex orderings in affine root systems. II. (English summary) **97m:17028**

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Peng, Lian Gang (*with* Xiao, Jie[1]) A realization of affine Lie algebras of type $\widetilde{A}_{n-1}$ via the derived categories of cyclic quivers. (English summary) **97f:17027**

Petersen, Jens Lyng (*with* Rasmussen, Jørgen; Yu, Ming[1]) Conformal blocks for admissible representations in SL(2) current algebra. (English summary) **97a:17022**

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Sanderson, Yasmine B. Dimensions of Demazure modules for rank two affine Lie algebras. (English summary) **97c:17040**

Shelman, O. K. Representations of Krichever-Novikov algebras. **97g:17027**

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Zanardi, P. Auxiliary fermion linearization. (English summary) **97e:81220**
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17B99 None of the above, but in this section

Batten, Peggy (*with* Stitzinger, Ernest) On covers of Lie algebras. (English summary) **97j:17032**
Fan, C. Kenneth Euler characteristic of certain affine flag varieties. (English summary) **97b:17023**
Mikhalëv, A. A. Shirshov composition techniques in Lie superalgebras (noncommutative Gröbner bases). (English summary) **97k:17045**
Neeb, Karl-Hermann Invariant convex sets and functions in Lie algebras. (English summary) **97j:17033**
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Yehia, Samy El Badawy Fuzzy ideals and fuzzy subalgebras of Lie algebras. (English summary) **97d:17018**

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Bergman, George M. (*with* Hausknecht, Adam O.) ★ Co-groups and co-rings in categories of associative rings. (English summary) **97k:16001**
Caranti, A. (*with* Mattarei, S.; Newman, M. F.; Scoppola, Carlo M.) Thin groups of prime-power order and thin Lie algebras. **97h:20036**
Chadli, Mohammed Domaine complexe associé à un espace symétrique de type Cayley. (English and French summaries) [Complex domain associated to a symmetric space of Cayley type] **97f:22022**
Garoufalidis, Stavros *see* **Bar-Natan, Dror, 97i:57004**
Gupta, Swapna (*with* Basu, D. K.) Origin of certain generating functions of Macdonald function $K_N(X)$ from a viewpoint of Lie algebra. (English summary)
Hain, Richard M. Infinitesimal presentations of the Torelli groups. **97k:14024**
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Kar, Sujit Kumar (*with* Basu, D. K.) Generating functions of $F(-N, \beta; \Gamma; X)$ from a viewpoint of Lie-algebra. (English summary)
Kashiwagi, Yoshimi (*with* Kikumasa, Isao) Complete reducibility in some algebraic systems. (English summary) **97g:94031**
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Matsumoto, Makoto On the Galois image in the derivation algebra of π_1 of the projective line minus three points. (English summary) **97a:11177**
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Mukherjee, Subir Kumar (*with* Basu, D. K.) Origin of certain generating functions of modified Bessel polynomials from the viewpoint of Lie algebra. (English summary)
Newman, M. F. *see* **Caranti, A.; et al., 97h:20036**
Onishchik, A. L. (*with* Serov, A. A.) Vector fields and deformations of isotropic super-Grassmannians of maximal type. (English summary) **97h:32010**
Pommeret, Denys Natural exponential families and Lie algebras. (French. English summary) **97j:60030**
Razmyslov, Yu. P. On the duality of varieties of representations of triple Lie systems and triple super-Lie systems. I. (Russian. Russian summary) **97b:17004**
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Shalev, Aner Finite p-groups. (English summary) **97h:20023**
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17Cxx Jordan algebras (algebras, triples and pairs)

17C05 Identities and free Jordan structures

Koshlukov, Plamen Speciality of Jordan pairs. (English summary) **97m:17034**
Vasilovskiĭ, S. Yu. Graded polynomial identities of the Jordan superalgebra of a bilinear form. (English summary) **97j:17034**

Items with secondary classifications in 17C05

Walkhoff, Alexander Algèbres de rang 3 de composition faible. (English summary) [Rank-three weak-composition algebras] **97f:17001**

17C10 Structure theory

Anquela, José A. (*with* Cortés, Teresa; Loos, Ottmar; McCrimmon, Kevin) An elemental characterization of strong primeness in Jordan systems. (English summary) **97j:17035**
Cortés, Teresa *see* **Anquela, José A.; et al., 97j:17035**
Fernández López, Antonio[1] (*with* García Rus, Eulalia) Nondegenerate Jordan algebras satisfying local Goldie conditions. (English summary) **97e:17045**
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Loos, Ottmar *see* **Anquela, José A.; et al., 97j:17035**
McCrimmon, Kevin *see* **Anquela, José A.; et al., 97j:17035**
Muta, Masanori (*with* Taniguchi, Yoshiaki; Yamaguti, Kiyosi) Semi-direct products of Freudenthal-Kantor triple systems. (English summary) **97f:17037**
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Items with secondary classifications in 17C10

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Fernández López, Antonio[1] *see* **Castellón Serrano, Alberto; et al., 97j:17002**
García Martín, Amable *see* **Castellón Serrano, Alberto; et al., 97j:17002**
Martín González, Cándido *see* **Castellón Serrano, Alberto; et al., 97j:17002**
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17C20 Simple, semisimple algebras

Bertram, Wolfgang Un théorème de Liouville pour les algèbres de Jordan. (English and French summaries) [A Liouville theorem for Jordan algebras] **97g:17030**

Items with secondary classifications in 17C20

Faraut, Jacques (*with* Gindikin, Simon G.) Pseudo-Hermitian symmetric spaces of tube type. **97i:32045**
Gindikin, Simon G. *see* **Faraut, Jacques, 97i:32045**
Sawyer, P. Spherical functions on symmetric cones. (English summary) **97k:43015**
Unterberger, André (*with* Upmeier, Harald) ★ Pseudodifferential analysis on symmetric cones. **97g:58166**
Upmeier, Harald *see* **Unterberger, André, 97g:58166**

17C27 Idempotents, Peirce decompositions

Edwards, C. Martin (*with* Rüttimann, Gottfried T.) Peirce inner ideals in Jordan*-triples. (English summary) **97a:17032**
Rüttimann, Gottfried T. *see* **Edwards, C. Martin, 97a:17032**

Items with secondary classifications in 17C27

Loos, Ottmar Steinberg groups and simplicity of elementary groups defined by Jordan pairs. **97j:17036**
Ouattara, Moussa Sur une classe d'algèbres à puissances associatives. (English summary) [On a class of power-associative algebras] **97c:17001**

17C30 Associated groups, automorphisms

Leasher, Barbara A. Geometric aspects of Steinberg groups defined by Jordan pairs. **97a:17033**
Loos, Ottmar Steinberg groups and simplicity of elementary groups defined by Jordan pairs. **97j:17036**

17C37 Associated geometries

Items with secondary classifications in 17C37

Leasher, Barbara A. Geometric aspects of Steinberg groups defined by Jordan pairs. **97a:17033**

17C40 Exceptional Jordan structures

Items with secondary classifications in 17C40

Koshlukov, Plamen Speciality of Jordan pairs. (English summary) **97m:17034**

17C50 Jordan structures associated with other structures [see also 16W10]

Items with secondary classifications in 17C50

Anquela, José A. (*with* Cortés, Teresa) Speciality of Jordan coalgebras. (English summary) **97g:16047**
Cortés, Teresa *see* **Anquela, José A., 97g:16047**
Faraut, Jacques Fonctions sphériques sur un espace symétrique ordonné de type Cayley. (English summary) [Spherical functions on an ordered symmetric space of Cayley type] **97c:43012**
Sokolov, Vladimir V. *see* **Svinolupov, S. I., 97j:58075**
Svinolupov, S. I. (*with* Sokolov, Vladimir V.) Deformations of Jordan triple systems, and integrable equations. (Russian. English and Russian summaries) **97j:58075**

17C55 Finite-dimensional structures

Faulkner, John R. Higher order invertibility in Jordan pairs. (English summary) **97e:17045**

17C60 Division algebras

Rochdi, A. Étude des algèbres réelles de Jordan non commutatives, de division, de dimension 8, dont l'algèbre de Lie des dérivations n'est pas triviale. (English summary) [Study of noncommutative Jordan real division algebras of dimension 8 whose Lie derivation algebra is nontrivial] **97c:17046**

17C65 Jordan structures on Banach spaces and algebras [see also 46H70, 46L70]

Items with secondary classifications in 17C65

Akkar, Mohamed (*with* Laayouni, M.) Théorèmes de factorisation dans les algèbres complètes de Jordan. (English summary) [Factorization theorems for complete Jordan algebras] **97e:46065**
Ayupov, Sh. A. (*with* Azamov, N. A.) Commutators and Lie isomorphisms of skew elements in prime operator algebras. **97a:46096**
Azamov, N. A. *see* **Ayupov, Sh. A., 97a:46096**
Benslimane, Mohamed (*with* Boudi, Nadia) Ring isomorphisms of Jordan-Banach algebras. **97k:46057**
Berdikulov, M. A. (*with* Odilov, S. T.) Generalized spin factors. (Russian. English and Uzbek summaries) **97i:46106**
Boudi, Nadia *see* **Benslimane, Mohamed, 97k:46057**
Edwards, C. Martin (*with* McCrimmon, Kevin; Rüttimann, Gottfried T.) The range of a structural projection. (English summary) **97d:46085**
Hessenberger, Gerald A spectral characterization of the socle of Banach Jordan systems. **97k:46058**
Kaup, Wilhelm On real Cartan factors. (English summary) **97m:46109**
Laayouni, M. *see* **Akkar, Mohamed, 97e:46065**
McCrimmon, Kevin *see* **Edwards, C. Martin; et al., 97d:46085**
Odilov, S. T. *see* **Berdikulov, M. A., 97i:46106**
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Villena Muñoz, Armando R. Derivations on Jordan-Banach algebras. (English summary) **97c:46059**
Wilkins, T. J. D. Spectrum-finite ideals of Jordan-Banach algebras. (English summary) **97f:46078**
— Inessential ideals in Jordan-Banach algebras. (English summary) **97j:46052**

17C70 Super structures

Items with secondary classifications in 17C70

Vasilovskiĭ, S. Yu. Graded polynomial identities of the Jordan superalgebra of a bilinear form. (English summary) **97j:17034**

17C90 Applications to physics

Uhlmann, Armin Spheres and hemispheres as quantum state spaces. (English summary) **97e:17046**

17C99 None of the above, but in this section

Items with secondary classifications in 17C99

Ibukiyama, Tomoyoshi On dimensions of automorphic forms and zeta functions of prehomogeneous vector space. **97e:11109**

17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

Babikov, M. Isotopy and identities in alternative algebras. (English summary) **97g:17031**
de Barros, Luiz G. X. (*with* Juriaans, Stanley O.) Integral loop rings of code loops. (English summary) **97k:17047**
Goodaire, Edgar G. (*with* Polcino Milies, César) Finite conjugacy in alternative loop algebras. (English summary) **97c:17047**
— (*with* Polcino Milies, César) The torsion product property in alternative algebras. (English summary) **97g:17032**
Juriaans, Stanley O. *see* **de Barros, Luiz G. X., 97k:17047**
Polcino Milies, César *see* **Goodaire, Edgar G., 97c:17047** *and* **97g:17032**

Items with secondary classifications in 17D05

Castellón Serrano, Alberto (*with* Fernández López, Antonio[1]; García Martín, Amable; Martín González, Cándido) Strongly prime alternative pairs with minimal inner ideals. (English summary) **97j:17002**
Fernández López, Antonio[1] *see* **Castellón Serrano, Alberto; et al., 97j:17002**
García Martín, Amable *see* **Castellón Serrano, Alberto; et al., 97j:17002**
Goodaire, Edgar G. (*with* Robinson, D. A.) A construction of loops which admit right alternative loop rings. (English summary) **97b:20100**
Leavitt, W. G. A note on matric-extensibility and the ADS condition. **97m:16040**
Martín González, Cándido *see* **Castellón Serrano, Alberto; et al., 97j:17002**
Popov, Vladimir Yur'evich Critical theories of super-commutative-associative varieties of rings. (Russian. Russian summary) **97a:16002**
Robinson, D. A. *see* **Goodaire, Edgar G., 97b:20100**
Solarin, A. R. T. On algebras of Bol-Moufang type. **97m:20078**
Yoshii, Yoji Jordan tori. (English summary) **97g:17029**

17D15 Right alternative rings

Paul, Y. (*with* Samanta, D.) Left alternative rings with an idempotent. (English summary) **97f:17038**
Samanta, D. *see* **Paul, Y., 97f:17038**

Items with secondary classifications in 17D15

Kleinfeld, Erwin (*with* Kleinfeld, Margaret) Variations of the Novikov identities. **97a:17004**
Kleinfeld, Margaret *see* **Kleinfeld, Erwin, 97a:17004**

17D25 Lie-admissible algebras

Corpet, Florence (*with* Micali, Artibano) Algèbres genétiques et mutation quantique. (English summary) [Genetic algebras and quantum mutation] **97b:17024**
Micali, Artibano *see* **Corpet, Florence, 97b:17024**
Myung, Hyo Chul Lie-admissible algebras and the Virasoro algebra. **97k:17048**

Items with secondary classifications in 17D25

Kadeisvili, J. V. Foundations of the Lie-Santilli isotheory. (English summary) **97j:70009**

17D92 Genetic algebras

Alcalde, M. Teresa (*with* Burgueño, César; Mallol, Cristián; Varro, Richard) Dérivations dans les algèbres de Bernstein. (French summary) [Derivations of Bernstein algebras] **97g:17033**
Andrade, Raúl (*with* Labra, Alicia) On a class of baric algebras. (English summary)
Bernad, J. (*with* Iltyakov, A. V.; Martínez López, Consuelo) Bernstein representations. (English summary) **97g:17034**
Bowman, Kevin *see* **Towers, David A., 97m:17037**
Burgueño, César (*with* Mallol, Cristián) Invariants dans les algèbres de Bernstein. (French summary) [Invariants in Bernstein algebras] **97m:17035**
— *see also* **Alcalde, M. Teresa; et al., 97g:17033**
Campos, Tânia M. M. (*with* Machado, Silvia D. A.; Ouattara, Moussa) La loi d'entropie dans certaines algèbres génétiques. (English and French summaries) [The entropy law in certain genetic algebras] **97k:17049**
Catalán S., Abdón (*with* Mallol, Cristián) Train polynomials. (Spanish. Spanish summary)
Correa, Ivan Finitely generated Bernstein algebras. (English summary) **97m:17036**
Costa, Roberto C. F. (*with* Suazo, A.) The multiplication algebra of a Bernstein algebra: basic results. (English summary) **97b:17025**
González, Santos (*with* Gutiérrez Fernández, J. Carlos; Martínez López, Consuelo) The Bernstein problem in dimension 5. (English summary) **97f:17039**
— (*with* Gutiérrez Fernández, J. Carlos; Martínez López, Consuelo) On regular Bernstein algebras. (English summary) **97d:17019**
Gutiérrez Fernández, J. Carlos The Bernstein problem for type $(n-2,2)$. (English summary) **97c:17048**
— *see also* **González, Santos; et al., 97d:17019** *and* **97f:17039**
Guzzo, Henrique, Jr. The bar-radical of baric algebras. **97e:17047**
Iltyakov, A. V. *see* **Bernad, J.; et al., 97g:17034**
Labra, Alicia *see* **Andrade, Raúl**
López-Sánchez, Jesus (*with* Rodríguez Santa Maria, Emilia) On train algebras of rank 4. (English summary) **97i:17023**
Machado, Silvia D. A. *see* **Campos, Tânia M. M.; et al., 97k:17049**
Mallol, Cristián (*with* Varro, Richard) Dérivations dans les algèbres de Walcher. (French summary) [Derivations in Walcher algebras] **97d:17020**
— (*with* Walkhoff, Alexander) Sur les algèbres vérifiant $x^3 = \lambda(x)x^2$. (French summary) [Algebras that satisfy $x^3 = \lambda(x)x^2$] **97f:17040**
— *see also* **Alcalde, M. Teresa; et al., 97g:17033**; **Burgueño, César, 97m:17035** *and* **Catalán S., Abdón**
Martínez López, Consuelo *see* **González, Santos; et al., 97d:17019**; **97f:17039** *and* **Bernad, J.; et al., 97g:17034**
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Towers, David A. (*with* Bowman, Kevin) Higher-order Bernstein algebras given by symmetric bilinear forms. (English summary) **97m:17037**
Varro, Richard *see* **Mallol, Cristián, 97d:17020** *and* **Alcalde, M. Teresa; et al., 97g:17033**
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Acosta G., Lorenzo Finite-dimensional Moufang algebras. (Spanish. Spanish summary) **97b:17001**
Beyer, W. A. (*with* Holm, L. M.) Number of left-product coefficients in a Medelian stochastic algebra. (English summary) **97h:92007**
Corpet, Florence (*with* Micali, Artibano) Algèbres genétiques et mutation quantique. (English summary) [Genetic algebras and quantum mutation] **97b:17024**
Correa, Ivan Commutative algebras satisfying an identity of degree six. **97g:17001**
Holm, L. M. *see* **Beyer, W. A., 97h:92007**
Micali, Artibano *see* **Corpet, Florence, 97b:17024**
Ouattara, Moussa Sur une classe d'algèbres à puissances associatives. (English summary) [On a class of power-associative algebras] **97c:17001**
Yoon, Suk Im Idempotent elements in the Lotka-Volterra algebra. **97m:17002**

17D99 None of the above, but in this section

Items with secondary classifications in 17D99

Bouctou, Thomas B. On Bol algebras. (English and Russian summaries) **97j:17001**
Matveev, O. A. (*with* Panshina, A. V.) Quasigroups on manifolds with trajectories. (English and Russian summaries) **97e:53024**
Panshina, A. V. *see* **Matveev, O. A., 97e:53024**

18–XX Category theory, homological algebra

18–02 Research exposition (monographs, survey articles)

Gelfand, Sergei I. (*with* Manin, Yuriĭ Ivanovich) ★ Methods of homological algebra. (English summary) **97j:18001**
Hilton, Peter (*with* Stammbach, U.) ★ A course in homological algebra. **97k:18001**
Manin, Yuriĭ Ivanovich *see* **Gelfand, Sergei I., 97j:18001**
May, J. P. Definitions: operads, algebras and modules. **97m:18001**
— Operads, algebras and modules. **97m:18002**
Stammbach, U. *see* **Hilton, Peter, 97k:18001**

Items with secondary classifications in 18–02

Dikranjan, Dikran N. (*with* Tholen, Walter) ★ Categorical structure of closure operators. (English summary) **97i:18004**
Poigné, Axel Basic category theory. **97i:68137**
Street, Ross Categorical structures. **97j:18007**
Tholen, Walter *see* **Dikranjan, Dikran N., 97i:18004**
Tong, Wen Ting *see* **Zhou, Boxun, 97g:16002**
Zhou, Boxun (*with* Tong, Wen Ting) Some results on homological algebra and module theory. **97g:16002**

18–03 Historical (must also be assigned at least one classification number from Section 01)

Mac Lane, Saunders The development and prospects for category theory. (English summary) **97e:18001**

Items with secondary classifications in 18–03

Corry, Leo ★ Modern algebra and the rise of mathematical structures. (English summary) **97i:01023**
Weibel, Charles A. The mathematical enterprises of Robert Thomason. (English summary) **97h:01020**

18–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 18–04

Roos, Jan-Erik On computer-assisted research in homological algebra. (English summary) **97j:55002**

18–06 Proceedings, conferences, collections, etc.

(Damphousse, Pierre) *see* **Colloquium: Category Theory, 97c:18001**
(Guitart, René) *see* **Colloquium: Category Theory, 97c:18001**
(Loday, Jean-Louis) *see* **Operads: Proceedings of Renaissance Conferences, 97j:18002**
(Stasheff, James D.) *see* **Operads: Proceedings of Renaissance Conferences, 97j:18002**
(Voronov, Alexander A.) *see* **Operads: Proceedings of Renaissance Conferences, 97j:18002**

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Colloquium:
Category Theory ★ The European Colloquium of Category Theory. **97c:18001**
Conference:
Operads and Homotopy Algebra ★ Operads: Proceedings of Renaissance Conferences. **97j:18002**
Contemporary Mathematics ★ Operads: Proceedings of Renaissance Conferences. **97j:18002**
Hartford, CT ★ Operads: Proceedings of Renaissance Conferences. **97j:18002**
Luminy ★ Operads: Proceedings of Renaissance Conferences. **97j:18002**
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Session:
Moduli Spaces, Operads, and Representation Theory ★ Operads: Proceedings of Renaissance Conferences. **97j:18002**
Tours ★ The European Colloquium of Category Theory. **97c:18001**

Items with secondary classifications in 18–06

(Pollicott, Mark) *see* **Ergodic theory of Z^d actions, 97d:28001**
(Schmidt, Klaus) *see* **Ergodic theory of Z^d actions, 97d:28001**

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Symposium:
Ergodic Theory of Z^d Actions ★ Ergodic theory of Z^d actions. **97d:28001**
Warwick ★ Ergodic theory of Z^d actions. **97d:28001**

18Axx General theory of categories and functors

18A10 Graphs, diagram schemes, precategories, neocategories [see also 20Lxx]

Ageron, Pierre Effective taxonomies and crossed taxonomies. (English and French summaries) **97i:18001**

Items with secondary classifications in 18A10

Ageron, Pierre La tour holomorphe d'une esquisse. (English and French summaries) [The tower of holomorphy of a sketch] **97h:18007**
Cury, F. La suffisante complétude connexe. A. Amphi-syntaxes, amphi-algèbres et sesqui-algèbres. [Sufficient connected completeness. A. Amphisyntaxes, amphialgebras and sesquialgebras] **97c:18008a**
— La suffisante complétude connexe. B. Théorie générale. [Sufficient connected completeness. B. General theory] **97c:18008b**
— Erratum: "Sufficient connected completeness. B. General theory". (French) **97c:18008c**
— La suffisante complétude connexe. C. Exemples. [Sufficient connected completeness. C. Examples] **97c:18008d**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Jones, Peter R. Profinite categories, implicit operations and pseudovarieties of categories. (English summary) **97h:18001**
Makkai, Michael Avoiding the axiom of choice in general category theory. (English summary) **97h:18002**

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Adámek, Jiří (*with* Rosický, Jiří) Finitary sketches and finitely accessible categories. (English summary) **97b:03086**
Brown, Carolyn (*with* Gurr, Doug) A categorical linear framework for Petri nets. (English summary) **97e:68090**
Corrêa, Marcelo Da Silva (*with* Haeusler, Edward Hermann) A concrete categorical model for the Lambek syntactic calculus. (English summary) **97m:03028**
Gurr, Doug *see* **Brown, Carolyn, 97e:68090**
Haeusler, Edward Hermann *see* **Corrêa, Marcelo Da Silva, 97m:03028**
Rosický, Jiří *see* **Adámek, Jiří, 97b:03086**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

Adámek, Jiří (*with* Hu, Hongde; Tholen, Walter) On pure morphisms in accessible categories. (English summary) **97g:18001**
Hu, Hongde *see* **Adámek, Jiří; et al., 97g:18001**
Tholen, Walter *see* **Adámek, Jiří; et al., 97g:18001**
Zhuang, Wa Jin Some properties of the star-type partial orders of the set of morphisms of a category. (Chinese. English and Chinese summaries)

Items with secondary classifications in 18A20

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Carboni, Aurelio (*with* Grandis, Marco) Categories of projective spaces. (English summary) **97d:18014**
Dikranjan, Dikran N. (*with* Tholen, Walter) ★ Categorical structure of closure operators. (English summary) **97i:18004**
Grandis, Marco *see* **Carboni, Aurelio, 97d:18014**
Hu, Hongde (*with* Pelletier, J. Wick) On regular monomorphisms in weakly locally presentable categories. (English summary) **97k:18004**
Jiang, Sheng Yuan Drazin inverses of morphisms. (Chinese. English and Chinese summaries)
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Pelletier, J. Wick *see* **Hu, Hongde, 97k:18004**
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Tholen, Walter *see* **Dikranjan, Dikran N., 97i:18004**

18A22 Special properties of functors (faithful, full, etc.)

Feng, Liang Gui Generalized inverses of functors. (Chinese. English and Chinese summaries)
Pultr, A. (*with* Sichler, J.) Extremal prime filters and universality of some categories. (English summary) **97e:18002**
Sichler, J. *see* **Pultr, A., 97e:18002**
Zaidi, S. M. A. Characterization of completeness in functions [functors]. (English summary)

Items with secondary classifications in 18A22

Adámek, Jiří A remark on fixed points of functors in topological categories. (English summary) **97c:18007**
(Barr, Michael) *see* **Blute, Richard F., 97c:16047**
Blute, Richard F. Hopf algebras and linear logic. (English summary) **97c:16047**
Hoogers, P. W. (*with* Kleijn, H. C. M.; Thiagarajan, P. S.) An event structure semantics for general Petri nets. (English summary) **97e:68091**
Kleijn, H. C. M. *see* **Hoogers, P. W.; et al., 97e:68091**
Thiagarajan, P. S. *see* **Hoogers, P. W.; et al., 97e:68091**

18A23 Natural morphisms, dinatural morphisms

Items with secondary classifications in 18A23

Robinson, Edmund Parametricity as isomorphism. (English summary) **97b:68144**

18A25 Functor categories, comma categories

Pavlović, Duško Chu. I. Cofree equivalences, dualities and $*$-autonomous categories. (English summary) **97j:18003**
Romanowska, A. B. (*with* Smith, Jonathan D. H.) Duality for semilattice representations. (English summary) **97m:18003**

Smith, Jonathan D. H. *see* **Romanowska, A. B., 97m:18003**
Todorov, Gordana (*with* Yang, Rixin) Locally finitely presented bifunctors. (English summary) **97c:18003**
Yang, Rixin *see* **Todorov, Gordana, 97c:18003**
Zangurashvili, D. On some categorical algebraic properties of functor categories. II. Counter-examples. (English and Georgian summaries) **97i:18002**

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Badouel, Eric (*with* Darondeau, Philippe) Trace nets and process automata. (English summary) **97h:68028**
Darondeau, Philippe *see* **Badouel, Eric, 97h:68028**
Jaffe, David B. Coherent functors, with application to torsion in the Picard group. (English summary) **97j:14008**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Clementino, Maria Manuel On connectedness and disconnectedness. **97a:18001**
Tonolo, Alberto On the classes of dense and closed subobjects. (English summary) **97e:18002**

Items with secondary classifications in 18A30

Brown, Carolyn (*with* Gurr, Doug) A categorical linear framework for Petri nets. (English summary) **97e:68090**
Clementino, Maria Manuel On categorical notions of compact objects. (English summary) **97g:18002**
Cordier, Jean-Marc (*with* Porter, Timothy) Homotopy coherent category theory. **97d:55032**
Farley, Jonathan David Priestley powers of lattices and their congruences. A problem of E. T. Schmidt. (English summary) **97m:08001**
Goerss, Paul G. The homology of homotopy inverse limits. (English summary) **97e:55011**
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Hoffman, Jerome William Heller's axioms for homotopy theory. (French summary) **97e:55012**
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Porter, Timothy *see* **Cordier, Jean-Marc, 97d:55032**
Sobral, Maria Manuela Some aspects of topological descent. (English summary) **97b:54014**
Winskel, Glynn (*with* Nielsen, Mogens) Models for concurrency. **97g:68072**

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

Fay, Temple H. (*with* Joubert, Stephan V.) Categorical compactness for rings. (English summary) **97h:18003**
Joubert, Stephan V. *see* **Fay, Temple H., 97h:18003**
Tholen, Walter Objects with dense diagonals. **97k:18002**

Items with secondary classifications in 18A32

Carboni, Aurelio (*with* Grandis, Marco) Categories of projective spaces. (English summary) **97d:18014**
Gardner, B. J. Morphic orthogonality and radicals in categories. **97d:18012**
Grandis, Marco *see* **Carboni, Aurelio, 97d:18014**
Hoffman, Jerome William Heller's axioms for homotopy theory. (French summary) **97e:55012**
Preciso, Luca On the dualities between categories of K-completely regular modules. **97g:16058**
Tonolo, Alberto On the classes of dense and closed subobjects. (English summary) **97e:18002**

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

Abujabal, Hamza A. S. (*with* Obaid, M. A.; Zaidi, S. M. A.) Projective structures in categories. (English summary)
Carboni, Aurelio (*with* Janelidze, George) Decidable (= separable) objects and morphisms in lextensive categories. (English summary) **97d:18001**
Hu, Hongde (*with* Tholen, Walter) Quasi-coproducts and accessible categories with wide pullbacks. (English summary) **97h:18004**
Janelidze, George *see* **Carboni, Aurelio, 97d:18001**
Obaid, M. A. *see* **Abujabal, Hamza A. S.; et al.**
Piessens, Frank (*with* Steegmans, Eric) Categorical data-specifications. (English summary) **97b:18001**
Steegmans, Eric *see* **Piessens, Frank, 97b:18001**
Tholen, Walter *see* **Hu, Hongde, 97h:18004**
Wang, Shaowu (*with* Yu, Yong Xi[1]) Some conclusions on categories with terminal objects. (English and Chinese summaries)
Yu, Yong Xi[1] *see* **Wang, Shaowu**
Zaidi, S. M. A. *see* **Abujabal, Hamza A. S.; et al.**

Items with secondary classifications in 18A35

Adámek, Jiří (*with* Koubek, Václav) On the greatest fixed point of a set functor. (English summary) **97d:68123**
Bergman, Clifford (*with* Berman, Joel) Morita equivalence of almost-primal clones. (English summary) **97a:08004**
Berman, Joel *see* **Bergman, Clifford, 97a:08004**
Carboni, Aurelio (*with* Janelidze, George; Magid, Andy R.) A note on the Galois correspondence for commutative rings. **97g:13009**
Corrêa, Marcelo Da Silva (*with* Hacusler, Edward Hermann) A concrete categorical model for the Lambek syntactic calculus. (English summary) **97m:03028**
Haeusler, Edward Hermann *see* **Corrêa, Marcelo Da Silva, 97m:03028**
Janelidze, George *see* **Carboni, Aurelio; et al., 97g:13009**
Koubek, Václav *see* **Adámek, Jiří, 97d:68123**
Magid, Andy R. *see* **Carboni, Aurelio; et al., 97g:13009**
Zangurashvili, D. On some categorical algebraic properties of functor categories. II. Counter-examples. (English and Georgian summaries) **97i:18002**

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

Geanău, M. Semiadjoint polyfunctors and decomposition theorems. (English and Romanian summaries) **97m:18004**
Hébert, Michel Syntactic characterizations of closure under pullbacks and of locally polypresentable categories. (English summary) **97k:18003**
Irfan, M. On adjoint functors in a super comma category. (English summary)
Johnstone, P. T. Remarks on quintessential and persistent localizations. (English summary) **97j:18004**
Sousa, Lurdes Orthogonality and closure operators. (French summary) **97c:18004**

Items with secondary classifications in 18A40

Barr, Michael (*with* Pedicchio, M. Cristina) Topological spaces and quasi-varieties. (English summary) **97d:54018**
Bergman, George M. (*with* Hausknecht, Adam O.) ★ Co-groups and co-rings in categories of associative rings. (English summary) **97k:16001**
Berrick, A. J. (*with* Tan, G. C.) The minimal extension of P-localization on groups. **97b:20048**
Clark, David M. (*with* Davey, Brian A.) When is a natural duality "good"? (English summary) **97g:08006**
Cordier, Jean-Marc (*with* Porter, Timothy) Homotopy coherent category theory. **97d:55032**
Davey, Brian A. (*with* Haviar, Miroslav; Priestley, H. A.) The syntax and semantics of entailment in duality theory. (English summary) **97d:08010**
— (*with* Priestley, H. A.) Optimal natural dualities. II. General theory. (English summary) **97j:08006**
— *see also* **Clark, David M., 97g:08006**
Diers, Yves Categories of algebraic sets. (English summary) **97h:18008**
Hausknecht, Adam O. *see* **Bergman, George M., 97k:16001**
Haviar, Miroslav *see* **Davey, Brian A.; et al., 97d:08010**
Herrlich, Horst Compactness and the axiom of choice. (English summary) **97c:54026**
Jaffe, David B. Coherent functors, with application to torsion in the Picard group. (English summary) **97j:14008**
Lord, Harriet Connectedness and disconnectedness in bitopology. (English summary) **97i:54037**
Megrelishvili, M. G. Free topological G-groups. (English summary) **97f:54047**
Pedicchio, M. Cristina *see* **Barr, Michael, 97d:54018**
Peschke, Georg Localization and genus in group theory and homotopy theory. **97g:55014**
Porter, Timothy *see* **Cordier, Jean-Marc, 97d:55032**
Priestley, H. A. Natural dualities for varieties of n-valued Łukasiewicz algebras. (English summary) **97f:06031**
— *see also* **Davey, Brian A.; et al., 97d:08010** *and* **97j:08006**
Richter, Günther Reflective relatives of adjunctions. (English summary) **97d:54020**
Sobral, Maria Manuela Some aspects of topological descent. (English summary) **97b:54014**
Sousa, Lurdes α-sober spaces via the orthogonal closure operator. (English summary) **97d:54021**
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18A99 None of the above, but in this section

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Alessi, Fabio (*with* Baldan, Paolo; Bellè, Gianna) A fixed-point theorem in a category of compact metric spaces. (English summary) **97b:68122**
Baldan, Paolo *see* **Alessi, Fabio; et al., 97b:68122**
Bellè, Gianna *see* **Alessi, Fabio; et al., 97b:68122**
Clementino, Maria Manuel On connectedness and disconnectedness. **97a:18001**
Romanowska, A. B. (*with* Smith, Jonathan D. H.) Semilattice-based dualities. (English summary) **97d:08011**
Smith, Jonathan D. H. *see* **Romanowska, A. B., 97d:08011**

18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Items with secondary classifications in 18B05

Adámek, Jiří (*with* Koubek, Václav) On the greatest fixed point of a set functor. (English summary) **97d:68123**
Koubek, Václav *see* **Adámek, Jiří, 97d:68123**

18B10 Category of relations, additive relations

Lambek, J. Relations in operational categories. (English summary) **97m:18005**
Olivier, Jean-Pierre (*with* Serrato, Dany) Additive relation categories or algebras: Mac Lane, Hutchinson axioms and bi-modularity. (English summary) **97c:18005**
— (*with* Serrato, Dany) Peirce allegories. Identities involving transitive elements and symmetrical ones. (English summary) **97m:18006**
Pedicchio, M. Cristina Arithmetical categories and commutator theory. (English summary) **97h:18005**
Serrato, Dany *see* **Olivier, Jean-Pierre, 97c:18005** *and* **97m:18006**
Šlapal, Josef On reduction of relational arities. (English summary) **97h:18006**

Items with secondary classifications in 18B10

Olivier, Jean-Pierre (*with* Serrato, Dany) Initial objects, universal objects for squares, equivalences and congruences in relation semi-algebras and algebras. (English summary) **97b:03083**
Pitts, Andrew M. Relational properties of domains. (English summary) **97g:68145**
Serrato, Dany *see* **Olivier, Jean-Pierre, 97b:03083**

18B15 Embedding theorems, universal categories [see also 18E20]

Banaschewski, B. (*with* Pultr, A.) Universal categories of uniform and metric locales. (English summary) **97e:18003**
Pultr, A. *see* **Banaschewski, B., 97e:18003**

18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Items with secondary classifications in 18B20

Provotar', A. I. Theoretical aspects of composite structural modular programming: computability of the operations of the algebra of morphisms. (Russian. English and Ukrainian summaries) **97b:68053**

18B25 Topoi [see also 03G30]

Geanău, M. Torseurs dans un topos. (English, French and Romanian summaries) [Torsors in a topos]
Hu, Hongde Flat functors and free exact categories. (English summary) **97c:18006**
— (*with* Pelletier, J. Wick) On regular monomorphisms in weakly locally presentable categories. (English summary) **97k:18004**
Johnstone, P. T. Cartesian monads on toposes. (English summary) **97m:18007**
Kock, Anders (*with* Plewe, Till) Glueing analysis for complemented subtoposes. (English summary) **97m:18008**
Li, Yong Ming Connectively approximable locales and their reflections in Frm. (Chinese. English and Chinese summaries) **97f:18001**
Mac Lane, Saunders (*with* Moerdijk, Ieke) Topos theory. **97j:18005**
Moerdijk, Ieke An addendum to: "Path-lifting for Grothendieck toposes" [Proc. Amer. Math. Soc. **102** (1988), no. 2, 242–248; MR 89c:18004]. **97j:18006**
— *see also* **Mac Lane, Saunders, 97j:18005**
Pelletier, J. Wick *see* **Hu, Hongde, 97k:18004**
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Tyszka, Apoloniusz Subobjects of the successive power objects in the topos G-set. (English summary) **97k:18005**
Zalamea, Fernando Recursion in categories. (Spanish. English and Spanish summaries) **97i:18003**

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Carboni, Aurelio (*with* Janelidze, George) Decidable (= separable) objects and morphisms in lextensive categories. (English summary) **97d:18001**
Honkasalo, Hannu Sheaves on fixed point sets and equivariant cohomology. (English summary) **97f:55009**
Janelidze, George *see* **Carboni, Aurelio, 97d:18001**
Johnstone, P. T. Remarks on quintessential and persistent localizations. (English summary) **97j:18004**
van Oosten, Jaap Two remarks on the Lifschitz realizability topos. **97j:03120**
Pavlović, Duško Maps. II. Chasing diagrams in categorical proof theory. (English summary) **97c:03132**
Pedicchio, M. Cristina Arithmetical categories and commutator theory. (English summary) **97h:18005**
Provotar', A. I. Theoretical aspects of composite structural modular programming: computability of the operations of the algebra of morphisms. (Russian. English and Ukrainian summaries) **97b:68053**
Trnková, Věra Algebraic theories, clones and their segments. (English summary) **97f:18002**
Wendt, Michael A. Measurable Hilbert sheaves. (English summary) **97h:46119**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Adámek, Jiří A remark on fixed points of functors in topological categories. (English summary) **97c:18007**
Altindis, Hüseyin *see* **Baran, Mehmet, 97d:18003**
Baran, Mehmet (*with* Altindis, Hüseyin) T_2-objects in topological categories. **97d:18003**
Clementino, Maria Manuel On categorical notions of compact objects. (English summary) **97g:18002**
— (*with* Tholen, Walter) Tychonoff's theorem in a category. (English summary) **97h:18002**
Dikranjan, Dikran N. (*with* Tholen, Walter) ★ Categorical structure of closure operators. (English summary) **97i:18004**
Jha, Pradeep Kumar *see* **Sarma, Ratna Dev, 97m:18009**
Lord, Harriet Disconnectednesses: two examples. (English summary) **97i:18005**
Osmatescu, P. C. Categorical function spaces with continuous morphisms. (English summary) (*see* **97c:00035**)
Richter, Günther An elementary approach to "algebra ∩ topology = compactness". (English summary) **97i:18006**
Sarma, Ratna Dev (*with* Jha, Pradeep Kumar) Fuzzy net-theoretic approach and Lowen's category. (English summary) **97m:18009**
Tholen, Walter *see* **Clementino, Maria Manuel, 97h:18002** *and* **Dikranjan, Dikran N., 97i:18004**
Trnková, Věra Algebraic theories, clones and their segments. (English summary) **97f:18002**
Waliszewski, Włodzimierz Regularity and coregularity in a category with localization. (English and Polish summaries) **97d:18004**

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Alessi, Fabio (*with* Baldan, Paolo; Bellè, Gianna) A fixed-point theorem in a category of compact metric spaces. (English summary) **97b:68122**
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Baldan, Paolo *see* **Alessi, Fabio; et al., 97b:68122**
Banaschewski, B. (*with* Pultr, A.) Booleanization. (French summary) **97b:06006**
Baran, Mehmet Separation properties in categories of limit and pretopological spaces. (English and Romanian summaries) **97h:54012**
— (*with* Altindis, Hüseyin) T_3 and T_4-objects in the category of bornological spaces. (English summary) **97c:54011**
— Separation properties in topological categories. (English summary) **97i:54017**
Barr, Michael (*with* Pedicchio, M. Cristina) Topological spaces and quasi-varieties. (English summary) **97d:54018**
Bellè, Gianna *see* **Alessi, Fabio; et al., 97b:68122**
Chen, Xiang Dong[1] On epi-extensions of frames. (English summary) **97b:06005**
— Stably closed frame homomorphisms. (French summary) **97g:54020**
Člačura, Juraj Heredity and Cartesian closed coreflective subcategories of the category of topological spaces. (English summary) **97d:54019**
Császár, Ákos Riesz and Lodato reflections. I. **97j:54013a**
— Riesz and Lodato reflections. II. **97j:54013b**
— Riesz and Lodato reflections. III. **97m:54022**
Dolchinov, Dolchin B. Some reflections on quasi-uniform frames. **97e:54025**
Edalat, Abbas Domain theory and integration. (English summary) **97b:28015**
Farley, Jonathan David Priestley duality for order-preserving maps into distributive lattices. (English summary) **97g:06013**
Flore, Marcelo P. Order-enrichment for categories of partial maps. (English summary) **97e:68073**
Herrlich, Horst Compactness and the axiom of choice. (English summary) **97c:54026**
Hušek, Miroslav (*with* Watson, W. Stephen) Universal metric spaces and factorization theorems. (English summary) **97m:54023**
In, Byung Sik On measurable spaces and semi-topogenous spaces. **97k:54009**
Ionită, Cătălin On coherent locales. (English summary) **97f:54012**
Ivanov, A. V. Mixers and functors of superextension type. (Russian. Russian summary) (*see* **97f:00015**)
Johnson, P. B. Coherent spaces constructively. (French summary) **97b:03063**
Kleisli, Heinrich (*with* Künzi, Hans-Peter A.; Rosický, Jiří) A topological Banach space model of linear logic. (English summary) **97k:03068**
Koslowski, Jürgen Parameterizing the theory of closure operators. (English summary) **97g:54014**
Künzi, Hans-Peter A. *see* **Kleisli, Heinrich; et al., 97k:03068**
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Li, Yong Ming Connectively approximable locales and their reflections in Frm. (Chinese. English and Chinese summaries) **97f:18001**
Liu, Ying-Ming (*with* Luo, Maokang) T_D property and spatial sublocales. (English summary) **97i:54018**
Lowen-Colebunders, E. (*with* Sonck, G.) On the largest coreflective Cartesian closed subconstruct of Prtop. (English summary) **97c:54013**
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Lyubashenko, V. V. Modular properties of ribbon abelian categories. (English summary) **97b:18004**
Pedicchio, M. Cristina *see* **Barr, Michael, 97d:54018**
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— Countable products of absolute C_β spaces. (English summary) **97i:54015**
Preuss, Gerhard Local compactness in semi-uniform convergence spaces. (English summary) **97k:54004**
Pultr, A. (*with* Sichler, J.) Extremal prime filters and universality of some categories. (English summary) **97c:18002**
— *see also* **Banaschewski, B., 97b:06006**
Rice, Michael D. Reflexive objects in topological categories. (English summary) **97h:68077**
Richter, Günther Reflective relatives of adjunctions. (English summary) **97d:54020**
Rosický, Jiří *see* **Kleisli, Heinrich; et al., 97k:03068**
Schröder, Joachim Epis in the category of pairwise-T_2 spaces. (English summary) **97f:54013**
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Šlapal, Josef Net spaces in categorical topology. (English summary) **97i:54019**
Sobral, Maria Manuela Some aspects of topological descent. (English summary) **97b:54014**
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Sousa, Lurdes Orthogonality and closure operators. (French summary) **97c:18004**
— α-sober spaces via the orthogonal closure operator. (English summary) **97d:54021**
Tholen, Walter Objects with dense diagonals. **97k:18002**
Watson, W. Stephen *see* **Hušek, Miroslav, 97m:54023**
Yuan, Xue-hai (*with* Lee, E. Stanley) Category Fuz, Wtopos, and category FuzFuz. (English summary) **97b:18002**
Zhao, Bin[1] Limit structures in the category of topological molecular lattices. (Chinese) **97j:54040**

18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Items with secondary classifications in 18B35

Banaschewski, B. (*with* Pultr, A.) Cauchy points of uniform and nearness frames. (English summary) **97e:54027**
Pultr, A. *see* **Banaschewski, B., 97e:54027**
Sousa, Lurdes α-sober spaces via the orthogonal closure operator. (English summary) **97d:54021**

18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20Lxx, 20Mxx]

Items with secondary classifications in 18B40

Almeida, Jorge A syntactical proof of locality of DA. (English summary) **97b:20096**
Cathelineau, Jean-Louis Birapport et groupoïdes. [Cross ratio and groupoids] **97c:51001**
Datuashvili, T. Whitehead homotopy equivalence and internal category equivalence of crossed modules in categories of groups with operations. (English and Georgian summaries) **97k:18009**
Hu, Hongde (*with* Tholen, Walter) Quasi-coproducts and accessible categories with wide pullbacks. (English summary) **97h:18004**
Jones, Peter R. Profinite categories, implicit operations and pseudovarieties of categories. (English summary) **97h:18001**
Tholen, Walter *see* **Hu, Hongde, 97h:18004**

18B99 None of the above, but in this section

Goralčík, P. (*with* Koubek, Václav) Universal coextensions within a variety. (English summary) **97i:18007**
Koubek, Václav *see* **Goralčík, P., 97i:18007**
Lawvere, F. William Unity and identity of opposites in calculus and physics. (English summary) **97g:18003**
Lee, E. Stanley *see* **Yuan, Xue-hai, 97b:18002**
Liu, Yu Ren A functor defined on the category ${}_RM_n^l$ and the category AG_{mn}^0. (Chinese. English and Chinese summaries)
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18Cxx Categories and algebraic theories

18C05 Equational categories [see also 03C05, 08C05]

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18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

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18D25 Strong functors, strong adjunctions

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18D30 Fibered categories

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18E10 Exact categories, abelian categories

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18E30 Derived categories, triangulated categories

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Zimmermann, Alexander Derived equivalences of orders. (English summary) **97g:16023**
— *see also* **König, Steffen, 97g:16021**

18E35 Localization of categories

Behera, Akrur (*with* Mishra, Amrutmayee) Localization and completion in a category. (English summary) **97c:18010**
Bénabou, Jean Some geometric aspects of the calculus of fractions. (English summary) **97g:18007**
Casacuberta, Carles (*with* Frei, Armin; Tan, G. C.) Extending localization functors. (English summary) **97a:18004**
Frei, Armin *see* **Casacuberta, Carles; et al., 97a:18004**
Jara, Pascual (*with* Verschoren, Alain; Vidal Martín, Concepción) ★ Localization and sheaves: a relative point of view. (English summary) **97m:18011**
Mishra, Amrutmayee *see* **Behera, Akrur, 97c:18010**
Pronk, Dorette A. Etendues and stacks as bicategories of fractions. (English summary) **97d:18011**
Tan, G. C. *see* **Casacuberta, Carles; et al., 97a:18004**
Verschoren, Alain *see* **Jara, Pascual; et al., 97m:18011**
Vidal Martín, Concepción *see* **Jara, Pascual; et al., 97m:18011**

Items with secondary classifications in 18E35

Krause, Henning The endocategory of a module. **97d:16011**

18E40 Torsion theories, radicals [see also 13D30, 16S90]

Castaño Iglesias, Florencio (*with* Gómez Torrecillas, José) Wide left Morita contexts and equivalences. (English summary) **97h:18014**
Gardner, B. J. Morphic orthogonality and radicals in categories. **97d:18012**
Gómez Torrecillas, José *see* **Castaño Iglesias, Florencio, 97h:18014**

Items with secondary classifications in 18E40

Coelho, Flávio U. (*with* Happel, Dieter) Quasitilted algebras admit a preprojective component. (English summary) **97g:16015**
Colpi, Riccardo (*with* Trlifaj, Jan) Tilting modules and tilting torsion theories. (English summary) **97e:16003**

Gisin, V. B. Abelianization and orthogonal complements of additive categories. (English summary) **97d:18009**
Happel, Dieter (*with* Reiten, Idun; Smalø, Sverre O.) Tilting in abelian categories and quasitilted algebras. (English summary) **97j:16009**
— *see also* **Coelho, Flávio U., 97g:16015**
Raggi Cárdenas, Francisco Federico (*with* Signoret P., Carlos J. E.) Serre subcategories of R-mod. **97e:16071**
Reiten, Idun *see* **Happel, Dieter; et al., 97j:16009**
Signoret P., Carlos J. E. *see* **Raggi Cárdenas, Francisco Federico, 97e:16071**
Smalø, Sverre O. *see* **Happel, Dieter; et al., 97j:16009**
Trlifaj, Jan *see* **Colpi, Riccardo, 97e:16003**
Van Oystaeyen, Freddy M. J. (*with* Zhang, Yin Huo) Induction functors and stable Clifford theory for Hopf modules. (English summary) **97g:16054**
Verschoren, Alain Sheaves and localization. (English summary) **97f:16052**
Zhang, Yin Huo *see* **Van Oystaeyen, Freddy M. J., 97g:16054**

18E99 None of the above, but in this section

Jiang, Sheng Yuan Drazin inverses of morphisms. (Chinese. English and Chinese summaries)

18Fxx Categories and geometry

18F10 Grothendieck topologies [see also 14F20]

Items with secondary classifications in 18F10

Bénabou, Jean Some geometric aspects of the calculus of fractions. (English summary) **97g:18007**
Joyal, André (*with* Tierney, Myles) On the homotopy theory of sheaves of simplicial groupoids. **97g:55025**
Moerdijk, Ieke An addendum to: "Path-lifting for Grothendieck toposes" [Proc. Amer. Math. Soc. **102** (1988), no. 2, 242–248; MR 89c:18004]. **97j:18006**
Tierney, Myles *see* **Joyal, André, 97g:55025**

18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

Shurygin, V. V. On a category of manifolds over algebras. (Russian) **97d:18013**

18F20 Presheaves and sheaves [see also 14F05, 32C35, 32L10, 54B40, 55N30]

Borceux, Francis (*with* Quinteiro, Carmen) A theory of enriched sheaves. (French summary) **97g:18008**
Quinteiro, Carmen *see* **Borceux, Francis, 97g:18008**

Items with secondary classifications in 18F20

Ambler, Simon (*with* Verity, Dominic) Generalized logic and the representation of rings. (English summary) **97k:03075**
Crans, Sjoerd E. Quillen closed model structures for sheaves. (English summary) **97f:18005**
Gierz, Gerhard Morita equivalence of quasi-primal algebras and sheaves. (English summary) **97m:08004**
Golovin, V. D. A finiteness criterion for cohomology of Fréchet-Montel sheaves. (English summary) **97e:32008**
Jaffe, David B. Functorial structure of units in a tensor product. (English summary) **97a:14014**
Jara, Pascual (*with* Verschoren, Alain; Vidal Martín, Concepción) ★ Localization and sheaves: a relative point of view. (English summary) **97m:18011**
Mac Lane, Saunders (*with* Moerdijk, Ieke) Topos theory. **97j:18005**
Moerdijk, Ieke *see* **Mac Lane, Saunders, 97j:18005**
Romanowska, A. B. (*with* Smith, Jonathan D. H.) Duality for semilattice representations. (English summary) **97m:18003**
Smith, Jonathan D. H. *see* **Romanowska, A. B., 97m:18003**
Sun, Shu Hao Adjunction of the associated sheaf functor of non-commutative rings. (English summary) **97e:16068**
Vassiliou, Efstathios Transformations of sheaf connections. (English summary) **97k:58003**
Verity, Dominic *see* **Ambler, Simon, 97k:03075**
Verschoren, Alain Sheaves and localization. (English summary) **97f:16052**
— *see also* **Jara, Pascual; et al., 97m:18011**
Vidal Martín, Concepción *see* **Jara, Pascual; et al., 97m:18011**
Wendt, Michael A. Measurable Hilbert sheaves. (English summary) **97h:46119**

18F25 Algebraic K-theory and L-theory [see also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67]

Pedersen, Erik K. Bounded and continuous control. **97c:18011**

Items with secondary classifications in 18F25

Dunn, Gerald K-theory of braided tensor ring categories with higher commutativity. (English summary) **97b:18003**
Nenashev, A. Yu. Double short exact sequences produce all elements of Quillen's K_1. (English summary) **97g:19001**

18F30 Grothendieck groups [see also 13D15, 16E20, 19Axx]

Beligiannis, Apostolos (*with* Marmaridis, Nikolaos) Grothendieck groups arising from contravariantly finite subcategories. (English summary) **97j:18011**
Marmaridis, Nikolaos *see* **Beligiannis, Apostolos, 97j:18011**

Items with secondary classifications in 18F30

Kerler, Thomas On braided tensorcategories. **97d:18006**

18F99 None of the above, but in this section

Carboni, Aurelio (*with* Grandis, Marco) Categories of projective spaces. (English summary) **97d:18014**
Grandis, Marco *see* **Carboni, Aurelio, 97d:18014**

Items with secondary classifications in 18F99

Kuramoto, Yoshiyuki A sufficient condition for cohomological descent. (English summary) **97f:55011**

18Gxx Homological algebra [see also 13Dxx, 16Exx, 55Uxx]

Items with secondary classifications in 18Gxx

Gelfand, Sergei I. (*with* Manin, Yuriĭ Ivanovich) ★ Methods of homological algebra. (English summary) **97j:18001**
Hilton, Peter (*with* Stammbach, U.) ★ A course in homological algebra. **97k:18001**
Manin, Yuriĭ Ivanovich *see* **Gelfand, Sergei I., 97j:18001**
Stammbach, U. *see* **Hilton, Peter, 97k:18001**

18G05 Projectives and injectives [see also 13C10, 13C11, 16D40, 16D50]

Items with secondary classifications in 18G05

Hayat-Legrand, Claude (*with* Legrand, A.) Whitehead Γ functor and homotopy. (English summary) **97c:55009**
Hu, Hongde Flat functors and free exact categories. (English summary) **97c:18006**
— (*with* Pelletier, J. Wick) On regular monomorphisms in weakly locally presentable categories. (English summary) **97k:18004**
Legrand, A. *see* **Hayat-Legrand, Claude, 97c:55009**
Pancar, Ali Coprojectively and coinjectively generated classes. (English and Turkish summaries) **97j:16004**
Pelletier, J. Wick *see* **Hu, Hongde, 97k:18004**

18G10 Resolutions; derived functors [see also 18E25]

Feng, Liang Gui (*with* Wen, Yang Jing) Derived couples, spectral sequences, and tensor products of complexes. (Chinese. English and Chinese summaries)
Singer, William M. On the minimality of Anick's resolution, with application to an algebra of cohomology operations. **97d:18015**
Wen, Yang Jing *see* **Feng, Liang Gui**

Items with secondary classifications in 18G10

Lannes, Jean (*with* Zarati, Saïd) Tor- et Ext-dimensions des H^*V-A-modules instables qui sont de type fini comme H^*V-modules. [Tor- and Ext-dimensions of unstable H^*V-A-modules that are finitely generated as H^*V-modules] **97h:55019**
Lee, Dae-Woong *see* **Lee, Hong-Jae, 97i:55021**
Lee, Hong-Jae (*with* Lee, Dae-Woong) On the strong homology groups. **97i:55021**
Mardešić, Sibe Nonvanishing derived limits in shape theory. (English summary) **97c:55019**
— Strong homology does not have compact supports. (English summary) **97b:55005**
Marmaridis, Nikolaos (*with* Papistas, Athanassios) Extensions of abelian categories and the strong no-loops conjecture. (English summary) **97d:18010**
Papistas, Athanassios *see* **Marmaridis, Nikolaos, 97d:18010**
Temte, Mark C. A convenient basis for a graded ring. (English summary) **97i:13001**
Zarati, Saïd *see* **Lannes, Jean, 97h:55019**

18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

Murillo, Aniceto The behaviour of $\mathrm{Ext}_A(R, A)$ through a morphism. (English and French summaries) **97a:18005**
Neeman, Amnon (*with* Retakh, V. S.) Extension categories and their homotopy. **97f:18008**
Retakh, V. S. *see* **Neeman, Amnon, 97f:18008**

Items with secondary classifications in 18G15

Carlson, Jon F. The cohomology of groups. **97j:20052**
Halperin, Stephen (*with* Lemaire, Jean-Michel) The fibre of a cell attachment. (English summary) **97c:55013**
Kawasaki, Ken-Ichiroh On the finiteness of Bass numbers of local cohomology modules. (English summary) **97a:13025**
Lannes, Jean (*with* Zarati, Saïd) Tor- et Ext-dimensions des H^*V-A-modules instables qui sont de type fini comme H^*V-modules. [Tor- and Ext-dimensions of unstable H^*V-A-modules that are finitely generated as H^*V-modules] **97h:55019**
Lemaire, Jean-Michel *see* **Halperin, Stephen, 97c:55013**
Markl, Martin Distributive laws and Koszulness. (English and French summaries) **97i:18008**
Packer, Judith A. Moore cohomology and central twisted crossed product C^*-algebras. (English summary) **97h:46114**

Palmieri, John H. Nilpotence for modules over the mod 2 Steenrod algebra. I, II. **97c:55028**
Singer, William M. On the minimality of Anick's resolution, with application to an algebra of cohomology operations. **97d:18015**
Zarati, Saïd *see* **Lannes, Jean, 97h:55019**

18G25 Relative homological algebra, projective classes

Items with secondary classifications in 18G25

Betzler, Reinhold Relative preprojective partitions. **97d:16015**
Guo, Jin Yun (*with* Sikko, Svein Arne) Relative global dimension and extension subcategories. **97f:16012**
Sikko, Svein Arne *see* **Guo, Jin Yun, 97f:16012**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Mouet, Catherine q-cohomologie non commutative. (English and French summaries) [Noncommutative q-cohomology] **97k:18012**

Items with secondary classifications in 18G30

Arvasi, Z. (*with* Porter, Timothy) Simplicial and crossed resolutions of commutative algebras. (English summary) **97g:13025**
Bourn, Dominique Mal'cev categories and fibration of pointed objects. (English summary) **97g:18004**
Conduché, Daniel Question de Whitehead et modules précroisés. (English and French summaries) [The Whitehead problem and precrossed modules] **97i:57003**
Dundas, Bjørn Ian (*with* McCarthy, Randy) Topological Hochschild homology of ring functors and exact categories. (English summary) **97i:19001**
Dwyer, W. G. (*with* Kan, D. M.; Stover, C. R.) The bigraded homotopy groups $\pi_{i,j}X$ of a pointed simplicial space X. (English summary) **97b:55024**
Ellis, Graham Spaces with finitely many non-trivial homotopy groups all of which are finite. (English summary) **97k:55010**
Jardine, J. F. Homotopy and homotopical algebra. **97i:18012**
Kan, D. M. *see* **Dwyer, W. G.; et al., 97b:55024**
Kuramoto, Yoshiyuki A sufficient condition for cohomological descent. (English summary) **97f:55011**
McCarthy, Randy *see* **Dundas, Bjørn Ian, 97i:19001**
Morel, Fabien Ensembles profinis simpliciaux et interprétation géométrique du foncteur T. (English and French summaries) [Simplicial profinite sets and geometric interpretation of the functor T] **97k:55014**
Möller, Gerd Lie algebras attached to simplicial complexes. **97g:17021**
Nofech, Alexander A version of an E^2 closed model category structure. **97d:55020**
Porter, Timothy *see* **Arvasi, Z., 97g:13025**
Rodicio, Antonio G. Erratum: "Flat exterior Tor algebras and cotangent complexes" [Comment. Math. Helv. **70** (1995), no. 4, 546–557; MR 96k:13020]. **97d:13020**
Stover, C. R. *see* **Dwyer, W. G.; et al., 97b:55024**

18G35 Chain complexes [see also 18E30, 55U15]

Pavelić, Petar Diagram cohomologies using categorical fibrations. (English summary) **97d:18016**

Items with secondary classifications in 18G35

Cenkl, Bohumil (*with* Vigué-Poirrier, Micheline) Hochschild and cyclic homology of an almost commutative cochain algebra associated to a nilmanifold. **97e:16021**
Conduché, Daniel Question de Whitehead et modules précroisés. (English and French summaries) [The Whitehead problem and precrossed modules] **97i:57003**
Feng, Liang Gui (*with* Wen, Yang Jing) Derived couples, spectral sequences, and tensor products of complexes. (Chinese. English and Chinese summaries)
Kimura, Takashi² (*with* Voronov, Alexander A.) The cohomology of algebras over moduli spaces. **97e:17003**
Umble, Ronald N. The deformation complex for differential graded Hopf algebras. (English summary) **97f:16021**
Vigué-Poirrier, Micheline *see* **Cenkl, Bohumil, 97e:16021**
Voronov, Alexander A. *see* **Kimura, Takashi², 97e:17003**
Wen, Yang Jing *see* **Feng, Liang Gui**
Zheng, Qi Bing A new Massey product on Ext groups. (English summary) **97f:16066**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

Items with secondary classifications in 18G40

Choi, Sangki (*with* Hong, Seok Young) Spectral sequences and Betti numbers. (Japanese summary)
Feng, Liang Gui (*with* Wen, Yang Jing) Derived couples, spectral sequences, and tensor products of complexes. (Chinese. English and Chinese summaries)
Gnedbaye, Allahtan Victor ★ Sur l'homologie des algèbres de Leibniz, opérades des algèbres k-aires. (French. French summary) [Homology of Leibniz algebras, operads of k-ary algebras] **97k:17001**
Hong, Seok Young *see* **Choi, Sangki**
Lee, Chun-Nip Farrell cohomology and centralizers of elementary abelian p-subgroups. **97b:20074**
Paranjape, K. H. Some spectral sequences for filtered complexes and applications. (English summary) **97h:55022**
Swan, Richard G. Hochschild cohomology of quasiprojective schemes. (English summary) **97j:19003**
Wen, Yang Jing *see* **Feng, Liang Gui**

18G50 Nonabelian homological algebra

Blanc, David New model categories from old. (English summary) **97e:18006**

Items with secondary classifications in 18G50

Brylinski, Jean-Luc (*with* McLaughlin, Dennis) The geometry of degree-4 characteristic classes and of line bundles on loop spaces. II. **97j:58157**
— (*with* McLaughlin, Dennis) The geometry of two-dimensional symbols. (English summary) **97e:19003**
Kalau, Wolfgang (*with* Papadopoulos, N. A.; Plass, J.; Warzecha, J.-M.) Differential algebras in non-commutative geometry. (English summary) **97a:58007**
Lambek, J. The butterfly and the serpent. (English summary) **97k:08006**
Lannes, Jean (*with* Zarati, Saïd) Tor- et Ext-dimensions des H^*V-A-modules instables qui sont de type fini comme H^*V-modules. [Tor- and Ext-dimensions of unstable H^*V-A-modules that are finitely generated as H^*V-modules] **97h:55019**
Lavendhomme, R. (*with* Lucas, Thierry Eugène) On modules and crossed modules. **97f:03053**
Lucas, Thierry Eugène *see* **Lavendhomme, R., 97f:03053**
McLaughlin, Dennis *see* **Brylinski, Jean-Luc, 97e:19003** *and* **97j:58157**
Papadopoulos, N. A. *see* **Kalau, Wolfgang; et al., 97a:58007**
Plass, J. *see* **Kalau, Wolfgang; et al., 97a:58007**
Porter, Timothy Interpretations of Yetter's notion of G-coloring: simplicial fibre bundles and non-abelian cohomology. **97h:57030**
Surowski, David B. Remarks on poset homology and an important aspect of the Quillen conjecture. (Chinese. English and Chinese summaries) **97j:20051**
Warzecha, J.-M. *see* **Kalau, Wolfgang; et al., 97a:58007**
Zarati, Saïd *see* **Lannes, Jean, 97h:55019**

18G55 Nonabelian homotopical algebra

Brown, Ronald Homotopy theory, and change of base for groupoids and multiple groupoids. (English summary) **97e:18007**
Jardine, J. F. Homotopy and homotopical algebra. **97i:18012**

Items with secondary classifications in 18G55

Baues, Hans-Joachim (*with* Tonks, Andrew) On the twisted cobar construction. **97k:55023**
Blanc, David New model categories from old. (English summary) **97e:18006**
Garzón, Antonio R. (*with* Miranda, Jesús G.) Closed model structures for algebraic models of r-connected spaces. (English summary) **97a:55022**
— (*with* Miranda, Jesús G.) Closed model structures for n-types of simplicial groups. (English summary) **97a:55023**
Goerss, Paul G. The homology of homotopy inverse limits. (English summary) **97e:55011**
Jardine, J. F. Boolean localization, in practice. (English summary) **97h:55023**
Joyal, André (*with* Tierney, Myles) On the homotopy theory of sheaves of simplicial groupoids. **97g:55025**
Miranda, Jesús G. *see* **Garzón, Antonio R., 97a:55022** *and* **97a:55023**
Tierney, Myles *see* **Joyal, André, 97g:55025**
Tonks, Andrew *see* **Baues, Hans-Joachim, 97k:55023**

18G60 Other (co)homology theories (cyclic, dihedral, etc.) [see also 19D55, 46L80, 58B30, 58G12]

Markl, Martin (*with* Shnider, Steven) Cohomology of Drinfel'd algebras: a homological algebra approach. **97e:18008**
Shnider, Steven *see* **Markl, Martin, 97e:18008**

Items with secondary classifications in 18G60

Dundas, Bjørn Ian (*with* McCarthy, Randy) Topological Hochschild homology of ring functors and exact categories. (English summary) **97i:19001**
Farber, Michael S. Homological algebra of Novikov-Shubin invariants and Morse inequalities. (English summary) **97m:58034**
Gnedbaye, Allahtan Victor ★ Sur l'homologie des algèbres de Leibniz, opérades des algèbres k-aires. (French. French summary) [Homology of Leibniz algebras, operads of k-ary algebras] **97k:17001**
Keller, Bernhard Invariance of cyclic homology under derived equivalence. (English summary) **97e:16022**
Kuribayashi, Katsuhiko On the real cohomology of spaces of free loops on manifolds. (English summary) **97d:55011**
Loday, Jean-Louis (*with* Pirashvili, T. I.) Leibniz representations of Lie algebras. (English summary) **97c:17006**
Lodder, Gerald M. Dihedral homology and Hermitian K-theory. (English summary) **97e:19006**
— Leibniz homology and the Hilton-Milnor theorem. **97m:17004**
Marmaridis, Nikolaos (*with* Papistas, Athanassios) Extensions of abelian categories and the strong no-loops conjecture. (English summary) **97d:18010**
McCarthy, Randy *see* **Dundas, Bjørn Ian, 97i:19001**
Papistas, Athanassios *see* **Marmaridis, Nikolaos, 97d:18010**
Pirashvili, T. I. Kan extension and stable homology of Eilenberg-Mac Lane spaces. **97k:55008**
— *see also* **Loday, Jean-Louis, 97c:17006**
Swan, Richard G. Hochschild cohomology of quasiprojective schemes. (English summary) **97j:19003**

18G99 None of the above, but in this section

Cherenack, Paul Framed bicobordism. (French summary) **97d:18017a**
— (*with* Wells, Greg) Addendum to the paper "Framed bicobordism". **97d:18017b**
Hardie, K. A. (*with* Vermeulen, J. J. C.) A projective homotopy theory for non-additive categories. (English and Italian summaries) **97d:18018**

Shen, Wen Huai (*with* Yi, Jian Xin; Zuo, Zai Si) Casacuberta's questions in extending localization functor.
— (*with* Yi, Jian Xin; Zuo, Zai Si) Localizing the extended Casacuberta problem. (Chinese)
Vermeulen, J. J. C. *see* **Hardie, K. A., 97d:18018**
Wells, Greg *see* **Cherenack, Paul, 97d:18017b**
Yi, Jian Xin *see* **Shen, Wen Huai; et al.**
Zuo, Zai Si *see* **Shen, Wen Huai; et al.**

Items with secondary classifications in 18G99

(Cole, Michael²) *see* **May, J. P., 97k:55016**
(Comezaña, G.) *see* **May, J. P., 97k:55016**
(Costenoble, S.) *see* **May, J. P., 97k:55016**
Díaz Díaz, F. J. (*with* García-Calcines, J.; Rodríguez-Machín, S.) ★ Grupos en categorías de homotopía. (Spanish) [Groups in homotopy categories] **97b:55025**
Dwyer, W. G. (*with* Wilkerson, C. W.) Diagrams up to cohomology. **97a:55020**
Ellis, Graham (*with* Hardie, K. A.) A projective homotopy theory of crossed G-modules. (English summary) **97d:55034**
(Elmendorf, A. D.) *see* **May, J. P., 97k:55016**
García-Calcines, J. *see* **Díaz Díaz, F. J.; et al., 97b:55025**
(Greenlees, J. P. C.) *see* **May, J. P., 97k:55016**
Hardie, K. A. (*with* Kamps, K. H.; Kieboom, R. W.) Dold type theorems in cubical homotopy theory. (English summary) **97f:55013**
— *see also* **Ellis, Graham, 97d:55034**
Herlihy, Maurice (*with* Rajsbaum, Sergio) Algebraic topology and distributed computing—a primer. (English summary) **97b:68059**
Kamps, K. H. *see* **Hardie, K. A.; et al., 97f:55013**
Kieboom, R. W. *see* **Hardie, K. A.; et al., 97f:55013**
(Lewis, L. Gaunce, Jr.) *see* **May, J. P., 97k:55016**
May, J. P. ★ Equivariant homotopy and cohomology theory. (English summary) **97k:55016**
— Operads, algebras and modules. **97m:18002**
(Piacenza, R. J.) *see* **May, J. P., 97k:55016**
Rajsbaum, Sergio *see* **Herlihy, Maurice, 97b:68059**
Rodríguez-Machín, S. *see* **Díaz Díaz, F. J.; et al., 97b:55025**
Talayco, Daniel E. Applications of cohomology to set theory. II. Todorčević trees. (English summary) **97b:03061**
(Triantafillou, G.) *see* **May, J. P., 97k:55016**
(Waner, S.) *see* **May, J. P., 97k:55016**
Wilkerson, C. W. *see* **Dwyer, W. G., 97a:55020**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **May, J. P., 97k:55016**

19–XX K-theory [see also 16E20, 18F25]

19–02 Research exposition (monographs, survey articles)

Srinivas, Vasudevan ★ Algebraic K-theory. (English summary) **97c:19001**

19–03 Historical (must also be assigned at least one classification number from Section 01)

Tong, Wen Ting *see* **Zhou, Boxun**, (**97d:16001**)
Zhou, Boxun (*with* Tong, Wen Ting) Progress in algebraic K-theory in China. (*see* **97d:16001**)

Items with secondary classifications in 19–03

Weibel, Charles A. The mathematical enterprises of Robert Thomason. (English summary) **97h:01020**

19–06 Proceedings, conferences, collections, etc.

(Banaszak, Grzegorz) *see* **Algebraic K-theory**, **97d:19001**
(Gajda, Wojciech) *see* **Algebraic K-theory**, **97d:19001**
(Krasoń, Piotr) *see* **Algebraic K-theory**, **97d:19001**

Items listed otherwise than by author

Algebraic K-theory ★ Algebraic K-theory. **97d:19001**
Conference:
Algebraic K-theory ★ Algebraic K-theory. **97d:19001**
Contemporary Mathematics ★ Algebraic K-theory. **97d:19001**
Poznań ★ Algebraic K-theory. **97d:19001**

19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A13 Stability for projective modules [see also 13C10]

Items with secondary classifications in 19A13

Chen, Huan Gen Projective modules over polynomial rings. (Chinese. Chinese summary) **97f:13014**
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19A31 K_0 of group rings and orders

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19A49 K_0 of other rings

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19Bxx Whitehead groups and K_1

19B10 Stable range conditions

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19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

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Shapiro, Jack M. *see* **Cortiñas, Guillermo**, **97e:17032**

19C20 Symbols, presentations and stability of K_2

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19C30 K_2 and the Brauer group

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19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

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Paluch, Michael Topology on $S^{-1}S$ for Banach algebras. (English summary) **97j:19001**

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19D10 Algebraic K-theory of spaces

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19D23 Symmetric monoidal categories [see also 18D10]

Sherman, Clayton Connecting homomorphisms in localization sequences. (English summary) **97h:19004**

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19D35 Negative K-theory, NK and Nil

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19D45 Higher symbols, Milnor K-theory

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McLaughlin, Dennis *see* **Brylinski, Jean-Luc, 97e:19003**
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Gangl, Herbert ★ Funktionalgleichungen von Polylogarithmen. (German) [Functional equations of polylogarithms] **97h:19009**
Levine, Marc Correction to: "Relative Milnor K-theory" [K-Theory **6** (1992), no. 2, 113–175; MR 94b:19005]. **97i:19003**
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19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

Arlettaz, Dominique A topological proof of the vanishing of the product of $K_3(\mathbf{Z})$ with $K_1(\mathbf{Z})$. (English summary) **97g:19004**
Bökstedt, M. (*with* Madsen, Ib) Algebraic K-theory of local number fields: the unramified case. **97e:19004**
Carlsson, Gunnar Bounded K-theory and the assembly map in algebraic K-theory. **97c:19002**
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Gajda, Wojciech *see* **Banaszak, Grzegorz, 97h:11146**
Jardine, J. F. Descent problems for the K-theory of fields of Galois cohomological dimension one. (English summary) **97h:19008**

19D55 K-theory and homology; cyclic homology and cohomology [see also 18G60]

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Emmanouil, Ioannis On the excision theorem in bivariant periodic cyclic cohomology. (English and French summaries) **97h:19006**
— The Künneth formula in periodic cyclic homology. (English summary) **97g:19006**
Fiedorowicz, Z. (*with* Pirashvili, T. I.; Schwänzl, Roland; Vogt, Rainer M.; Waldhausen, Friedhelm) Mac Lane homology and topological Hochschild homology. **97h:19007**
Hesselholt, Lars (*with* Madsen, Ib) On the K-theory of finite algebras over Witt vectors of perfect fields. **97i:19002**
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McCarthy, Randy *see* **Dundas, Bjørn Ian, 97i:19001**
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Zelewski, Piotr M. *see* **Arlettaz, Dominique, 97d:19005** *and* **97f:19002**
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Brodzki, Jacek Simplicial normalization in the entire cyclic cohomology of Banach algebras. (English summary) **97b:46084**
Burghelea, D. Free loop spaces, power maps and K-theory. (English summary) **97f:55015**
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(Cole, Michael²) *see* **Elmendorf, A. D.; et al., 97h:55006**
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Cuntz, Joachim Representations of quantized differential forms in non-commutative geometry. (English summary) **97a:46102**
Dahl, Erlend Cohomology cyclique des products croisés tordus. (French summary) [Cyclic cohomology of twisted crossed products] **97i:46127**
Elmendorf, A. D. (*with* Kříž, I.; Mandell, M. A.; May, J. P.) ★ Rings, modules, and algebras in stable homotopy theory. (English summary) **97h:55006**
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Klein, John R. (*with* Rognes, John) The fiber of the linearization map $A(*) \to K(\mathbf{Z})$. **97m:19001**
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Loday, Jean-Louis (*with* Pirashvili, T. I.) Leibniz representations of Lie algebras. (English summary) **97c:17006**
Mandell, M. A. *see* **Elmendorf, A. D.; et al., 97h:55006**
May, J. P. *see* **Elmendorf, A. D.; et al., 97h:55006**
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Pedersen, Erik K. Bounded and continuous control. **97c:18011**
Penkava, Michael (*with* Schwarz, Albert) A_∞ algebras and the cohomology of moduli spaces. **97b:16015**
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Schwänzl, Roland (*with* Staffeldt, Ross; Waldhausen, Friedhelm) Stable K-theory and topological Hochschild homology of A_∞ rings. (English summary) **97h:19003**
Schwarz, Albert *see* **Penkava, Michael, 97b:16015**
Shapiro, Jack M. *see* **Cortiñas, Guillermo, 97c:17032**
Staffeldt, Ross *see* **Schwänzl, Roland; et al., 97h:19003**
Waldhausen, Friedhelm *see* **Schwänzl, Roland; et al., 97h:19003**
Xia, Daoxing Chern characters associated with almost commuting algebras. (English summary) **97d:19007**
Yao, Dongyuan The K-theory of vector bundles with endomorphisms over a scheme. (English summary) **97j:19004**
Zhang, Pu¹ (*with* Liu, Shao Xue) An equality on Hochschild homology groups.

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Choi, Sang Gyu (*with* Song, Yongjin) On the general Volodin space. (English summary) **97m:19002**
Song, Yongjin *see* **Choi, Sang Gyu, 97m:19002**

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Levin, A. M. Elliptic polylogarithms in K-theory. (English summary) **97j:11028**
Nenashev, A. Yu. Double short exact sequences produce all elements of Quillen's K_1. (English summary) **97g:19001**

19Exx K-theory in geometry

19E08 K-theory of schemes [see also 14C35]

Karpenko, N. A. On topological filtration for Severi-Brauer varieties. II. (English summary) **97c:19003**
Merkur'ev, A. S. The group $H^1(X, \mathscr{K}_2)$ for projective homogeneous varieties. (Russian. Russian summary) **97a:19003**
Nenashev, A. Yu. Simplicial determinant maps and the second term of weight filtrations. **97c:19004**
Szyjewski, Marek An invariant of quadratic forms over schemes. (English summary) **97k:19001**
Yao, Dongyuan The K-theory of vector bundles with endomorphisms over a scheme. (English summary) **97j:19004**

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Deninger, Christopher Deligne periods of mixed motives, K-theory and the entropy of certain $\mathbf{Z}^n$-actions. **97k:11101**
de Jeu, Rob On $K_4^{(3)}$ of curves over number fields. (English summary) **97d:19006**
Karpenko, N. A. Grothendieck Chow motives of Severi-Brauer varieties. (Russian. Russian summary) **97b:14011**

19E15 Algebraic cycles [see also 14C25, 14C35]

Bloch, Spencer J. The Postnikov tower in algebraic K-theory. (English summary) **97m:19003**

Items with secondary classifications in 19E15

Barbieri-Viale, L. (*with* Pedrini, C.; Weibel, Charles A.) Roitman's theorem for singular complex projective surfaces. **97c:14004**
Friedlander, Eric M. (*with* Lawson, H. Blaine, Jr.) Duality relating spaces of algebraic cocycles and cycles. (English summary) **97k:14007**
Hanamura, Masaki Mixed motives and algebraic cycles. I. **97d:14014**
Karpenko, N. A. Grothendieck Chow motives of Severi-Brauer varieties. (Russian. Russian summary) **97b:14011**
— On topological filtration for Severi-Brauer varieties. II. (English summary) **97c:19003**
— On topological filtration for triquaternion algebra. (English summary) **97c:14005**
Lawson, H. Blaine, Jr. *see* **Friedlander, Eric M., 97k:14007**
Levine, Marc Homology of algebraic varieties: an introduction to the works of Suslin and Voevodsky. **97m:14025**
Müller-Stach, Stefan $\mathbf{C}^*$-extensions of tori, higher Chow groups and applications to incidence equivalence relations for algebraic cycles. (English summary) **97e:14010**
Pedrini, C. *see* **Barbieri-Viale, L.; et al., 97c:14004**
Scholl, A. J. Vanishing cycles and non-classical parabolic cohomology. **97d:11089**
Suresh, V. Zero cycles on conic fibrations and a conjecture of Bloch. (English summary) **97m:14007**
Suslin, A. A. (*with* Voevodsky, Vladimir) Singular homology of abstract algebraic varieties. **97e:14030**
Suwa, Noriyuki A note on Gersten's conjecture for logarithmic Hodge-Witt sheaves. (English summary) **97d:14030**
Voevodsky, Vladimir *see* **Suslin, A. A., 97e:14030**
Weibel, Charles A. *see* **Barbieri-Viale, L.; et al., 97c:14004**

19E20 Relations with cohomology theories [see also 14Fxx]

Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
Jardine, J. F. Descent problems for the K-theory of fields of Galois cohomological dimension one. (English summary) **97h:19008**
Levine, Marc Correction to: "Relative Milnor K-theory" [K-Theory **6** (1992), no. 2, 113–175; MR 94b:19005]. **97i:19003**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**

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Barbieri-Viale, L. (*with* Pedrini, C.; Weibel, Charles A.) Roitman's theorem for singular complex projective surfaces. **97c:14004**
Borel, Armand Values of zeta-functions at integers, cohomology and polylogarithms. **97a:19005**
Gangl, Herbert ★ Funktionalgleichungen von Polylogarithmen. (German) [Functional equations of polylogarithms] **97h:19009**
Geisser, Thomas p-adic K-theory of Hecke characters of imaginary quadratic fields and an analogue of Beilinson's conjectures. **97m:11086**
Goncharov, A. B. Polylogarithms in arithmetic and geometry. **97h:19010**
Jannsen, Uwe Mixed motives, motivic cohomology, and Ext-groups. **97j:14022**
Pedrini, C. *see* **Barbieri-Viale, L.; et al., 97c:14004**
Weibel, Charles A. *see* **Barbieri-Viale, L.; et al., 97c:14004**

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Neumann, Walter D. (*with* Yang, Jun[1]) Invariants from triangulations of hyperbolic 3-manifolds. (English summary) **97d:57017**
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Yang, Jun[1] *see* **Neumann, Walter D., 97d:57017**

19Fxx K-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory [see also 11G45]

Items with secondary classifications in 19F05

Brylinski, Jean-Luc (*with* McLaughlin, Dennis) The geometry of two-dimensional symbols. (English summary) **97e:19003**
Fesenko, Ivan B. On norm subgroups of complete discretely valued fields. (Russian. English and Russian summaries) **97a:11190**
Kapranov, M. M. Analogies between the Langlands correspondence and topological quantum field theory. **97c:11069**
Madunts, A. I. (*with* Zhukov, I. B.) Multidimensional complete fields: topology and other basic constructions. **97b:12009**
McLaughlin, Dennis *see* **Brylinski, Jean-Luc, 97e:19003**
Vostokov, S. V. The pairing on K-groups in fields of valuation of rank n. **97d:11180**
Zhukov, I. B. *see* **Madunts, A. I., 97b:12009**

19F15 Symbols and arithmetic [see also 11R37]

Qin, Hourong Computation of $K_2\mathbf{Z}[(1+\sqrt{-35})/2]$. (English summary) **97a:19004**

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Borel, Armand Values of zeta-functions at integers, cohomology and polylogarithms. **97a:19005**
Gangl, Herbert ★ Funktionalgleichungen von Polylogarithmen. (German) [Functional equations of polylogarithms] **97h:19009**
Perrin-Riou, Bernadette Fonctions L p-adiques. [p-adic L-functions] **97j:11021**
Ulmer, Douglas L. Slopes of modular forms and congruences. (English and French summaries) **97i:11046a**
— Corrigendum: "Slopes of modular forms and congruences". **97i:11046b**

19F27 Étale cohomology, higher regulators, zeta and L-functions [see also 11G40, 11R42, 11S40, 14F20, 14G10]

Borel, Armand Values of zeta-functions at integers, cohomology and polylogarithms. **97a:19005**
Gangl, Herbert ★ Funktionalgleichungen von Polylogarithmen. (German) [Functional equations of polylogarithms] **97h:19009**
— Families of functional equations for polylogarithms. **97g:19009**
Goncharov, A. B. Polylogarithms in arithmetic and geometry. **97h:19010**
de Jeu, Rob On $K_4^{(3)}$ of curves over number fields. (English summary) **97d:19006**
Kahn, Bruno On the Lichtenbaum-Quillen conjecture. (English summary) **97c:19005**
Kimura, Ken-Ichiro K_2 of a Fermat quotient and the value of its L-function. (English summary) **97h:19011**

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Banaszak, Grzegorz (*with* Gajda, Wojciech) On the arithmetic of cyclotomic fields and the K-theory of $\mathbf{Q}$. (English summary) **97h:11146**
Deninger, Christopher Deligne periods of mixed motives, K-theory and the entropy of certain $\mathbf{Z}^n$-actions. **97k:11101**
Fleckinger, Vincent *see* **Kolster, Manfred; et al., 97g:11136**
Frenkel, Edward (*with* Szenes, András) Thermodynamic Bethe ansatz and dilogarithm identities. I. (English summary) **97a:11182**
Gajda, Wojciech *see* **Banaszak, Grzegorz, 97h:11146**
Geisser, Thomas p-adic K-theory of Hecke characters of imaginary quadratic fields and an analogue of Beilinson's conjectures. **97m:11086**
Guo, Li[1] On the Bloch-Kato conjecture for Hecke L-functions. **97e:11100**
Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
Jardine, J. F. Descent problems for the K-theory of fields of Galois cohomological dimension one. (English summary) **97h:19008**
Kolster, Manfred (*with* Nguyen Quang Do, Thong; Fleckinger, Vincent) Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures. **97g:11136**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**
Mitchell, Stephen A. Class groups and general linear group cohomology for a ring of algebraic integers. **97g:19005**
Nguyen Quang Do, Thong *see* **Kolster, Manfred; et al., 97g:11136**
Scholl, A. J. Vanishing cycles and non-classical parabolic cohomology. **97d:11089**
Szenes, András *see* **Frenkel, Edward, 97a:11182**

19F99 None of the above, but in this section

Items with secondary classifications in 19F99

Banaszak, Grzegorz (*with* Gajda, Wojciech) Euler systems for higher K-theory of number fields. **97g:11135**
Gajda, Wojciech *see* **Banaszak, Grzegorz, 97g:11135**
Levin, A. M. Elliptic polylogarithms in K-theory. (English summary) **97j:11028**
Neumann, Walter D. (*with* Yang, Jun[1]) Rationality problems for K-theory and Chern-Simons invariants of hyperbolic 3-manifolds. **97h:57038**
Yang, Jun[1] *see* **Neumann, Walter D., 97h:57038**

19Gxx K-theory of forms [see also 11Exx]

19G12 Witt groups of rings [see also 11E81]

Items with secondary classifications in 19G12

Mináč, Ján (*with* Spira, Michel) Witt rings and Galois groups. (English summary) **97i:11038**
Spira, Michel *see* **Mináč, Ján, 97i:11038**

19G24 L-theory of group rings [see also 11E81]

Items with secondary classifications in 19G24

Bak, Anthony (*with* Morimoto, Masaharu) Equivariant surgery with middle-dimensional singular sets. I. (English summary) **97b:57031**
Morimoto, Masaharu *see* **Bak, Anthony, 97b:57031**
Ranicki, Andrew Bordism of automorphisms of manifolds from the algebraic L-theory point of view. **97a:57035**

19G38 Hermitian K-theory, relations with K-theory of rings

Items with secondary classifications in 19G38

Barge, J. (*with* Ojanguren, M.) Sur le troisième invariant d'une forme quadratique. (English and French summaries) [The third invariant of a quadratic form] **97a:11063**
Bauer, Stefan (*with* Wilczyński, Dariusz M.) On the topological classification of pseudofree group actions on 4-manifolds. II. (English summary) **97m:57017**
Ojanguren, M. *see* **Barge, J., 97a:11063**
Wilczyński, Dariusz M. *see* **Bauer, Stefan, 97m:57017**

19G99 None of the above, but in this section

Items with secondary classifications in 19G99

Muranov, Yu. V. K-groups of quadratic extensions of rings. (Russian. Russian summary) **97b:16013**

19Jxx Obstructions from topology

19J05 Finiteness and other obstructions in K_0

Items with secondary classifications in 19J05

Andrzejewski, Paweł The equivariant Siebenmann boundary theorem for semi-free actions. **97e:57041**
— A complement to the theory of equivariant finiteness obstructions. (English summary) **97h:57057**

19J10 Whitehead (and related) torsion

Items with secondary classifications in 19J10

Gong, Donggeng K-theoretic torsion invariants for finite von Neumann algebras. (English summary) **97m:46110**

19J25 Surgery obstructions [see also 57R67]

Items with secondary classifications in 19J25

Akhmet'ev, P. M. (*with* Muranov, Yu. V.) Obstructions to the splitting of manifolds with infinite fundamental group. (Russian. Russian summary) **97h:57053**
Bak, Anthony (*with* Morimoto, Masaharu) Equivariant surgery with middle-dimensional singular sets. I. (English summary) **97b:57031**
Ferry, Steven C. (*with* Weinberger, Shmuel) A coarse approach to the Novikov conjecture. (English summary) **97d:57025**
Morimoto, Masaharu *see* **Bak, Anthony, 97b:57031**
Muranov, Yu. V. (*with* Repovš, Dušan D.) Obstructions to surgeries on a pair of manifolds. (Russian)
— *see also* **Akhmet'ev, P. M., 97h:57053**
Pedersen, Erik K. (*with* Roe, John; Weinberger, Shmuel) On the homotopy invariance of the boundedly controlled analytic signature of a manifold over an open cone. **97e:58214**
Quinn, Frank Assembly maps in bordism-type theories. **97h:57055**
Repovš, Dušan D. *see* **Muranov, Yu. V.**
Roe, John ★ Index theory, coarse geometry, and topology of manifolds. **97h:58155**
— *see also* **Pedersen, Erik K.; et al., 97e:58214**
Weinberger, Shmuel *see* **Ferry, Steven C., 97d:57025** *and* **Pedersen, Erik K.; et al., 97e:58214**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Roe, John, 97h:58155**

19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

Items with secondary classifications in 19K14

Dadarlat, Marius (*with* Loring, Terry A.) Classifying C^*-algebras via ordered, mod-p K-theory. **97f:46110**
Eilers, Søren Künneth splittings and classification of C^*-algebras with finitely many ideals. (English summary) **97j:46057**
Huang, Zhaobo On the classification of AF-algebras and their dimension groups. II. (English summary) **97a:46082**
Loring, Terry A. *see* **Dadarlat, Marius, 97f:46110**
Nielsen, Karen Egede (*with* Thomsen, Klaus) Limits of circle algebras. **97e:46097**
Putnam, Ian F. C^*-algebras from Smale spaces. (English summary) **97m:46106**
Thomsen, Klaus *see* **Nielsen, Karen Egede, 97e:46097**

19K33 EXT and K-homology [see also 55N22]

Items with secondary classifications in 19K33

Cuntz, Joachim Representations of quantized differential forms in non-commutative geometry. (English summary) **97a:46102**
Gong, Guihua Relative K-cycles and local elliptic boundary conditions. (English summary) **97a:58180**
Kaminker, Jerome Algebraic K-theory invariants for operator theory. (English summary) **97a:46099**

19K35 Kasparov theory (KK-theory) [see also 58G12]

Samuel, Jonathan Asymptotic morphisms and E-theory. (English summary) **97k:19002**

Items with secondary classifications in 19K35

Dadarlat, Marius (*with* Loring, Terry A.) A universal multicoefficient theorem for the Kasparov groups. **97f:46109**
Germain, Emmanuel KK-theory of reduced free-product C^*-algebras. **97f:46111**
Hurder, Steven Exotic index theory and the Novikov conjecture. **97g:58165**
Julg, Pierre Remarks on the Baum-Connes conjecture and Kazhdan's property T. (English summary) **97i:46125**
Kasparov, G. G. K-theory, group C^*-algebras, and higher signatures (conspectus). **97j:58153**
Kato, Tsuyoshi Asymptotic Lipschitz cohomology and higher signatures. **97b:58136**
Loring, Terry A. *see* **Dadarlat, Marius, 97f:46109**
McClanahan, Kevin K-theory for certain reduced free products of C^*-algebras. (English summary) **97d:46087**
Pedersen, Erik K. (*with* Roe, John; Weinberger, Shmuel) On the homotopy invariance of the boundedly controlled analytic signature of a manifold over an open cone. **97e:58214**
Phillips, N. Christopher Approximate unitary equivalence of homomorphisms from odd Cuntz algebras. (English summary) **97k:46068**
Roe, John ★ Index theory, coarse geometry, and topology of manifolds. **97h:58155**
— *see also* **Pedersen, Erik K.; et al., 97e:58214**
Schochet, Claude L. The UCT, the Milnor sequence, and a canonical decomposition of the Kasparov groups. (English summary) **97d:46088**
Weinberger, Shmuel *see* **Pedersen, Erik K.; et al., 97e:58214**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Roe, John, 97h:58155**

19K56 Index theory [see also 58G12]

Nistor, Victor The index of operators on foliated bundles. (English summary) **97j:19005**
Xia, Daoxing Chern characters associated with almost commuting algebras. (English summary) **97d:19007**

Items with secondary classifications in 19K56

Botvinnik, B. I. (*with* Gilkey, Peter B.) An analytic computation of $k\mathrm{o}_{4r-1}(BQ_8)$. **97g:55003**
Boutet de Monvel, Louis Index theorems and microsupport. **97h:58148**
Deundyak, V. M. Homotopic classification and calculation of the index of families of multidimensional bisingular integral operators. (Russian) **97j:58146**
Elliott, George A. (*with* Su, Hongbing) K-theoretic classification for inductive limit Z_2 actions on AF algebras. (English summary) **97h:46113**
Gilkey, Peter B. *see* **Botvinnik, B. I., 97g:55003**
Hattori, Akio Positive line bundle and index. **97f:32044**
Hector, Gilbert Groupoïdes, feuilletages et C^*-algèbres (quelques aspects de la conjecture de Baum-Connes). [Groupoids, foliations and C^*-algebras (some aspects of the Baum-Connes conjecture)] **97h:46115**
Higson, Nigel (*with* Roe, John) On the coarse Baum-Connes conjecture. **97f:58127**
Hurder, Steven Exotic index theory and the Novikov conjecture. **97g:58165**
Li, Liangqing Cellular filtration of K-theory and determinants of C^*-algebras. (English summary) **97j:46075**
Mishchenko, A. S. Controlled Fredholm representations. (English summary) **97d:58188**
Pedersen, Erik K. (*with* Roe, John; Weinberger, Shmuel) On the homotopy invariance of the boundedly controlled analytic signature of a manifold over an open cone. **97e:58214**
Roe, John ★ Index theory, coarse geometry, and topology of manifolds. **97h:58155**
— *see also* **Pedersen, Erik K.; et al., 97e:58214** *and* **Higson, Nigel, 97f:58127**
Rosenberg, Jonathan Analytic Novikov for topologists. (English summary) **97b:58138**
Su, Hongbing K-theoretic classification for certain inductive limit Z_2 actions on real rank zero C^*-algebras. (English summary) **97b:46076**

— *see also* **Elliott, George A., 97h:46113**
Thomsen, Klaus Representing K_1 in the unitary group. **97g:46092**
Troitskiĭ, EvgeniĭVadimovich Orthogonal complements and endomorphisms of Hilbert modules and C^*-elliptic complexes. **97f:46101**
Weinberger, Shmuel *see* **Pedersen, Erik K.; et al., 97e:58214**
Wodzicki, Mariusz Algebraic K-theory and functional analysis. **97f:46112**
Yu, Guoliang Zero-in-the-spectrum conjecture, positive scalar curvature and asymptotic dimension. **97h:58156**

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CBMS Regional Conference Series in Mathematics *see* **Roe, John, 97h:58155**

19K99 None of the above, but in this section

Items with secondary classifications in 19K99
Elhage Hassan, Nawfal Rangs stables de certaines extensions. (French summary) [Stable ranks of certain extensions] **97c:46088**
Farsi, Carla (*with* Watling, Neil) Fixed point subalgebras of rational higher-dimensional non-commutative tori. (English summary) **97c:46090**
Kandelaki, T. K. K-theory of Z_2-graded Banach categories. II. (English and Georgian summaries) **97j:46079**
Pask, David (*with* Raeburn, Iain) On the K-theory of Cuntz-Krieger algebras. (English summary) **97m:46111**
Raeburn, Iain *see* **Pask, David, 97m:46111**
Suárez, Fernando Daniel Homotopy stability of orthogonal spaces in commutative Banach algebras. (English summary) **97f:46080**
Watling, Neil *see* **Farsi, Carla, 97c:46090**

19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

Items with secondary classifications in 19Lxx
Giffen, Charles H. Bott periodicity and the Q-construction. (English summary) **97i:55030**

19L10 Riemann-Roch theorems, Chern characters

Items with secondary classifications in 19L10
Čap, Andreas (*with* Schichl, Hermann) Characteristic classes for A-bundles. **97h:57047**
Salamon, S. M. On the cohomology of Kähler and hyper-Kähler manifolds. **97f:32042**
Schichl, Hermann *see* **Čap, Andreas, 97h:57047**

19L20 J-homomorphism, Adams operations [see also 55Q50]

Items with secondary classifications in 19L20
Knapp, Karlheinz Operations and cooperations in Im(J)-theory. **97f:55014**
Ratliff, Thomas C. Congruence subgroups, elliptic cohomology, and the Eichler-Shimura map. (English summary) **97k:55006**

19L41 Connective K-theory, cobordism [see also 55N22]

Bayen, Dilip (*with* Bruner, Robert R.) Real connective K-theory and the quaternion group. (English summary) **97d:19008**
Bruner, Robert R. *see* **Bayen, Dilip, 97d:19008**

Items with secondary classifications in 19L41
Botvinnik, B. I. (*with* Gilkey, Peter B.) An analytic computation of $ko_{4r-1}(BQ_8)$. **97g:55003**
Gilkey, Peter B. *see* **Botvinnik, B. I., 97g:55003**
Knapp, Karlheinz Connective K-theory of the Im(J)-spectrum. (English summary) **97h:55004**

19L47 Equivariant K-theory [see also 55N91, 55P91, 55Q91, 55R91, 55S91]

Items with secondary classifications in 19L47
Bayen, Dilip (*with* Bruner, Robert R.) Real connective K-theory and the quaternion group. (English summary) **97d:19008**
Bruner, Robert R. *see* **Bayen, Dilip, 97d:19008**
Hattori, Akio Positive line bundle and index. **97f:32044**
Komiya, Katsuhiro Equivariant K-theory and maps between representation spheres. **97g:55024**
Lawson, H. Blaine, Jr. (*with* Lima-Filho, Paulo; Michelsohn, Marie-Louise) Algebraic cycles and equivariant cohomology theories. **97f:55022**
Lima-Filho, Paulo *see* **Lawson, H. Blaine, Jr.; et al., 97f:55022**
Michelsohn, Marie-Louise *see* **Lawson, H. Blaine, Jr.; et al., 97f:55022**
Nagase, Teruko An algebraic SL_2-vector bundle over R_2 as a variety. (English summary) **97c:14047**

19L64 Computations, geometric applications

Items with secondary classifications in 19L64
Fiedorowicz, Z. (*with* Pirashvili, T. I.; Schwänzl, Roland; Vogt, Rainer M.; Waldhausen, Friedhelm) Mac Lane homology and topological Hochschild homology. **97h:19007**
Langsetmo, Lisa Further structure in $K(1)_*\Omega^k S^{2n+1}$. (English summary) **97g:55012**
Minami, Haruo On the K-theory of the projective symplectic groups. **97c:55006**
Önder, Turgut An alternative computation of 2-primary factors of J-orders of Hopf line bundles. (English summary) **97g:55023**
Pirashvili, T. I. *see* **Fiedorowicz, Z.; et al., 97h:19007**
Schwänzl, Roland *see* **Fiedorowicz, Z.; et al., 97h:19007**
Vogt, Rainer M. *see* **Fiedorowicz, Z.; et al., 97h:19007**
Waldhausen, Friedhelm *see* **Fiedorowicz, Z.; et al., 97h:19007**

19L99 None of the above, but in this section

Items with secondary classifications in 19L99
Jardine, J. F. Homotopy and homotopical algebra. **97i:18012**
Suárez, Fernando Daniel Homotopy stability of orthogonal spaces in commutative Banach algebras. (English summary) **97f:46080**
Weiss, Michael S. (*with* Williams, Bruce) Assembly. (English summary) **97f:55005**
Williams, Bruce *see* **Weiss, Michael S., 97f:55005**

19M05 Miscellaneous applications of K-theory

Items with secondary classifications in 19M05
Andrzejewski, Paweł The equivariant Siebenmann boundary theorem for semi-free actions. **97e:57041**
Hambleton, Ian (*with* Pedersen, Erik K.) Non-linear similarity revisited. **97h:57058**
Pedersen, Erik K. *see* **Hambleton, Ian, 97h:57058**
Samuel, Jonathan Asymptotic morphisms and E-theory. (English summary) **97k:19002**

20–XX Group theory and generalizations

20–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Khukhro, E. I.) *see* **Unsolved problems in group theory. The Kourovka notebook, 97d:20001**
(Mazurov, Viktor Danilovich) *see* **Unsolved problems in group theory. The Kourovka notebook, 97d:20001**

Items listed otherwise than by author

Kourovka notebook ★ Unsolved problems in group theory. The Kourovka notebook. **97d:20001**
Problems:
  Group theory ★ Unsolved problems in group theory. The Kourovka notebook. **97d:20001**
Unsolved problems in group theory. The Kourovka notebook ★ Unsolved problems in group theory. The Kourovka notebook. **97d:20001**

20–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Geissinger, Ladnor D.) *see* **Parker, Ellen Maycock, 97k:20001**
Kargapolov, M. I. (*with* Merzlyakov, Yu. I.) ★ Основы теории групп. (Russian. Russian summary) [Fundamentals of group theory] **97e:20001**
Merzlyakov, Yu. I. *see* **Kargapolov, M. I., 97e:20001**
Parker, Ellen Maycock ★ Laboratory experiences in group theory. (English summary) **97k:20001**
Rosen, Joe ★ Symmetry in science. (English summary) **97f:20001**
Srinivasa Rao, K. N. ★ Linear algebra and group theory for physicists. (English summary) **97m:20001**

Items with secondary classifications in 20–01

(Artamonov, V. A.) *see* **Exercises in algebra, 97f:00004**
Johnston, Bernard L. (*with* Richman, Fred) ★ Numbers and symmetry. (English summary) **97j:00002**
(Kostrikin, Alekseĭ Ivanovich) *see* **Exercises in algebra, 97f:00004**
Meunier, Pierre ★ Exercices d'algèbre et d'analyse corrigés et commentés. 2. (French. French summary) [Exercises of algebra and analysis with answers and comments. 2]
Onishchik, A. L. *see* **Vinberg, Ė. B., 97d:22001**
Richman, Fred *see* **Johnston, Bernard L., 97j:00002**
Vinberg, Ė. B. (*with* Onishchik, A. L.) ★ Семинар по группам Ли и алгебраическим группам. (Russian. Russian summary) [A seminar on Lie groups and algebraic groups] **97d:22001**

Items listed otherwise than by author

Exercises in algebra ★ Exercises in algebra. **97f:00004**

20–02 Research exposition (monographs, survey articles)

Chen, Gui Yun (*with* Chen, Zhong Mu; Shi, Wu Jie) Structure of finite groups. **97g:20001**
Chen, Zhong Mu *see* **Chen, Gui Yun; et al., 97g:20001**
Karpilovsky, Gregory ★ Group representations. Vol. 4. **97h:20001**
Shi, Wu Jie *see* **Chen, Gui Yun; et al., 97g:20001**
Yoshida, Tomoyuki Classical problems in group theory. I. Enumerating subgroups and homomorphisms [translation of Sūgaku **45** (1993), no. 3, 193–207; MR 94k:20001]. (English summary) (*see* **97g:00026**)

Items with secondary classifications in 20–02

Carter, R. W. On the representation theory of the finite groups of Lie type over an algebraically closed field of characteristic 0 [MR 93j:20034]. (*see* **97a:00047**)
Coleman, Eoin Jonsson groups, rings and algebras. **97d:03042**

20–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 20–03

Birkeland, Bent Ludvig Sylow's lectures on algebraic equations and substitutions, Christiana (Oslo), 1862: an introduction and a summary. (English, French and German summaries) **97h:01011**
(Clifford, Alfred H.) *see* **Preston, Gordon, 97m:01082**
Kazarin, L. S. Investigations in the theory of finite groups at Yaroslavl' University. (Russian. Russian summary) **97d:20012**
Preston, Gordon A. H. Clifford's work on unions of groups. **97m:01082**
(Sylow, Ludwig) *see* **Birkeland, Bent, 97h:01011**

20–04 Explicit machine computation and programs (not the theory of computation or programming)

Linton, Stephen A. (*with* Smith, Geoff C.) Contemporary computer algebra systems. (English summary)
Newman, M. F. (*with* O'Brien, E. A.) Application of computers to questions like those of Burnside. II. (English summary) **97k:20002**
O'Brien, E. A. *see* **Newman, M. F., 97k:20002**
Smith, Geoff C. *see* **Linton, Stephen A.**

Items with secondary classifications in 20–04

Curtis, R. T. (*with* Hasan, Z.) Symmetric representation of the elements of the Janko group J_1. (English summary) **97m:20024**
Hasan, Z. *see* **Curtis, R. T., 97m:20024**
Smith, Geoff C. Group theory results with machine generated proofs. (English summary) **97b:68202**

20–06 Proceedings, conferences, collections, etc.

(Arasu, K. T.) *see* **Groups, difference sets, and the Monster, 97b:20001**
(Arnold, David M.) *see* **Abelian groups and modules, 97d:20002**
(Cabanes, Marc) *see* **Finite reductive groups, 97i:20001**
(Clifford, Alfred H.) *see* **Semigroup theory and its applications, 97g:20002**
(Dillon, J. F.) *see* **Groups, difference sets, and the Monster, 97b:20001**
(Duan, Xue Fu) *see* **Group theory in China, 97m:20002**
(Finkelstein, Larry) *see* **Groups and computation, 97m:20003**
(Harada, Koichiro) *see* **Groups, difference sets, and the Monster, 97b:20001**
(Hofmann, Karl H.) *see* **Semigroup theory and its applications, 97g:20002**
(Kantor, William M.) *see* **Groups and computation, 97m:20003**
(Külshammer, Burkhard) *see* **Representation Theory Days, 97k:20003**
(Mislove, Michael W.) *see* **Semigroup theory and its applications, 97g:20002**
(Rangaswamy, Kulumani M.) *see* **Abelian groups and modules, 97d:20002**
(Rosenbaum, Kurt) *see* **Representation Theory Days, 97k:20003**
(Sehgal, Surinder K.) *see* **Groups, difference sets, and the Monster, 97b:20001**
(Shi, Sheng-ming) *see* **Group theory in China, 97m:20002**
(Shoji, Kunitaka) *see* **Proceedings: Symposium on Semigroups, Languages and their Related Fields, 97a:20001**
(Solomon, Ronald M.) *see* **Groups, difference sets, and the Monster, 97b:20001**
(Wan, Zhe Xian) *see* **Group theory in China, 97m:20002**

Items listed otherwise than by author

Abelian groups and modules ★ Abelian groups and modules. **97d:20002**
Birthday:
  Duan, Xue Fu ★ Group theory in China. **97m:20002**
Colorado Springs, CO ★ Abelian groups and modules. **97d:20002**
Columbus, OH ★ Groups, difference sets, and the Monster. (English summary) **97b:20001**
Conference:
  Abelian Groups and Modules ★ Abelian groups and modules. **97d:20002**
  Finite Reductive Groups: Related Structures and Representations ★ Finite reductive groups. **97i:20001**
  Representation Theory ★ Darstellungstheorietage Jena 1996. [Representation Theory Days Jena 1996] **97k:20003**
  Semigroup Theory and its Applications ★ Semigroup theory and its applications. **97g:20002**
Darstellungstheorietage ★ Darstellungstheorietage Jena 1996. [Representation Theory Days Jena 1996] **97k:20003**
Finite reductive groups ★ Finite reductive groups. **97i:20001**
Group theory in China ★ Group theory in China. **97m:20002**
Groups and computation ★ Groups and computation. II. **97m:20003**
Groups, difference sets, and the Monster ★ Groups, difference sets, and the Monster. (English summary) **97b:20001**
Jena ★ Darstellungstheorietage Jena 1996. [Representation Theory Days Jena 1996] **97k:20003**
Luminy ★ Finite reductive groups. **97i:20001**
Matsue ★ Proceedings of the 19th Symposium on Semigroups, Languages and their Related Fields. **97a:20001**
Memorial Volume:
  Clifford, Alfred Hoblitzelle ★ Semigroup theory and its applications. **97g:20002**
New Brunswick, NJ ★ Groups and computation. II. **97m:20003**
New Orleans, LA ★ Semigroup theory and its applications. **97g:20002**
Proceedings:
  Symposium on Semigroups, Languages and their Related Fields ★ Proceedings of the 19th Symposium on Semigroups, Languages and their Related Fields. **97a:20001**
Progress in Mathematics ★ Finite reductive groups. **97i:20001**
Representation Theory Days ★ Darstellungstheorietage Jena 1996. [Representation Theory Days Jena 1996] **97k:20003**
Semigroup theory and its applications ★ Semigroup theory and its applications. **97g:20002**
Symposium:
  Semigroups, Languages and their Related Fields ★ Proceedings of the 19th Symposium on Semigroups, Languages and their Related Fields. **97a:20001**
Workshop:
  Groups and Computation ★ Groups and computation. II. **97m:20003**

Items with secondary classifications in 20–06

(Cao, Xi Hua) *see* **Rings, groups, and algebras, 97d:16001**
(Ershov, Yurii Leonidovich) *see* **Algebra, 97c:00034**
(Fong, Yuen) *see* **Workshop: Algebra, 97j:00024**
(Hazewinkel, Michiel) *see* **Handbook: Algebra, 97f:00006**
(Khukhro, E. I.) *see* **Algebra, 97c:00034**
(Knauer, Ulrich) *see* **Workshop: Algebra, 97j:00024**
(Kostrikin, Alekseĭ Ivanovich) *see* **Algebra, 97a:00047**
(Levchuk, V. M.) *see* **Algebra, 97c:00034**
(Liu, Shao Xue) *see* **Rings, groups, and algebras, 97d:16001**
(Mikhalëv, A. V.) *see* **Abelian groups and modules, 97b:20077** *and* **Workshop: Algebra, 97j:00024**
(Podufalov, N. D.) *see* **Algebra, 97c:00034**
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20Axx Foundations

20A05 Axiomatics and elementary properties

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20B05 General theory for finite groups

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20B27 Infinite automorphism groups [see also 12F10]

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20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

20C05 Group rings of finite groups and their modules [see also 16S34]

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Simon, Barry ★ Representations of finite and compact groups. (English summary) **97c:22001**
Skula, Ladislav On a special ideal contained in the Stickelberger ideal. (English summary) **97d:11157**
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Toffalori, Carlo Decidability for $\mathbf{Z}[G]$-modules when G is cyclic of prime order. (English summary) **97g:03010**
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20C07 Group rings of infinite groups and their modules [see also 16S34]

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Chadha, Gurmeet K. Idempotents in non-Archimedean group rings. **97a:20005**
Danchev, P. V. Commutative group algebras of σ-summable abelian groups. (English summary) **97k:20011**
Duan, Ze Yong Modules over hyperfinite groups. (*see* **97d:16001**)
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Hartl, Manfred Polynomiality properties of group extensions with a torsion-free abelian kernel. (English summary) **97c:20005**
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Qin, Y. B. The decomposition of Artinian modules over hyper-(cyclic or finite) groups. (English summary) **97b:20003**
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Donkin, Stephen On projective modules for algebraic groups. **97c:20064**
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Hill, Paul (*with* Ullery, William) Units of modular group algebras of isotype subgroups of D.S.C.'s. (English summary) **97g:16044**
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Lee, Jong Bum (*with* Park, Chan-Young) Nilpotent action by an elementary amenable group and Euler characteristic. **97g:57057**
Marciniak, Zbigniew S. (*with* Sehgal, Sudarshan K.) Zassenhaus conjecture and infinite nilpotent groups. (English summary) **97k:16048**
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Passman, Donald S. Semiprimitivity of group algebras of locally finite groups. (English summary) **97b:16029**
— Semiprimitivity of group algebras of locally finite groups. II. (English summary) **97b:16030**
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20C10 Integral representations of finite groups

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Haefner, Jeremy *see* **Klingler, Lee, 97c:20006**
Klingler, Lee (*with* Haefner, Jeremy) The pullback structure of blocks with cyclic, normal defect groups. (English summary) **97c:20006**
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— Elementary properties of group-rings and orders. (English summary) **97f:20010**
— Clifford theory and a counterexample to the isomorphism problem for infinite groups. (English summary) **97f:20011**
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Gamst, J. (*with* Hoechsmann, K.) Kummer's lemma for cyclic 2-groups. (English summary) **97a:16065**
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Juriaans, Stanley O. Units in integral group rings—a survey. (English summary) (*see* **97c:16001**)
Malinin, D. A. Integral representations of finite groups with Galois action. (Russian)
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20C11 p-adic representations of finite groups

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20C15 Ordinary representations and characters

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Armeanu, Ion About the groups all of whose characters are rational valued on the $2'$-elements. (English summary) **97m:20007**
— Ambivalent groups having a faithful monomial irreducible character. (English summary)
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Belonogov, V. A. Criteria for nonsimplicity of a finite group in the language of characters. II. (Russian. English and Russian summaries) **97f:20012**
Berkovich, Yakov On Isaacs' solvability criterion. (English summary) **97i:20005**
— (*with* Zhmud', È. M.) On monolithic characters. (English summary) **97e:20006**
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— (*with* Kazarin, L. S.) Finite nonsolvable groups in which only two nonlinear irreducible characters have equal degrees. (English summary) **97j:20005a**
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— On Isaacs' three character degrees theorem. (English summary) **97i:20006**
Chen, Cheng Dong *see* **Chen, Yu^4**, **97e:20007**
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Chigira, Naoki (*with* Iiyori, Nobuo) Bratteli diagrams of finite groups. **97c:20008**
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— (*with* Navarro, Gabriel) Coprime actions, fixed-point subgroups and irreducible induced characters. **97g:20009**
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Lu, Ziqun *see* **Ren, Yongcai; et al.**, **97m:20010**
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Pan, Feng Irreducible representations of Birman-Wenzl algebras. (English summary) **97a:20008**
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Strunkov, S. P. On equations in finite groups and invariants of representations for their subgroups. (English summary) **97i:20009**
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Yamauchi, Kenichi On automorphisms of a character ring. **97k:20017**
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— (*with* Mostaghim, Z.) Computation of the complex characters of the group $\mathrm{AUT}(\mathrm{GL}_7(2))$. (English summary) **97m:20019**
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Larsen, Michael Jeffrey On the conjugacy of element-conjugate homomorphisms. II. **97b:20070**
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Malle, Gunter Unipotente Grade imprimitiver komplexer Spiegelungsgruppen. (German summary) [Unipotent degrees of imprimitive complex reflection groups] **97a:20073**
Marshall, Mary K. Numbers of conjugacy class sizes and derived lengths for A-groups. (English summary) **97j:20023**
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Navarro, Gabriel Actions and invariant character degrees. II. **97e:20053**
— Inducing characters and nilpotent subgroups. (English summary) **97a:20034**
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Ohmori, Zyozyu The Schur indices of the cuspidal unipotent characters of the finite unitary groups. **97i:20018**
Robinson, Geoffrey R. On the base size and rank of a primitive permutation group. **97i:20002**
Scolarici, G. (*with* Solombrino, Luigi) Notes on quaternionic group representations. (English summary) **97a:81065**
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Simon, Barry ★ Representations of finite and compact groups. (English summary) **97c:22001**
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Wang, Xiangyong Congruences on "character" values of permutation summands. (English summary) **97d:19002**
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Barker, Laurence Möbius inversion and the Lefschetz invariants of some p-subgroup complexes. (English summary) **97d:20007**
Bleher, Frauke M. ★ Automorphismen von Gruppenringen und Blocktheorie. (German. German summary) [Automorphisms of group rings and block theory] **97j:20008**
Carlson, Jon F. ★ Modules and group algebras. **97c:20013**
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Ford, Ben Irreducible representations of the alternating group in odd characteristic. (English summary) **97d:20008**
Glasby, S. P. (*with* Kovács, L. G.) Irreducible modules and normal subgroups of prime index. (English summary) **97a:20012**
Gruber, Jochen Green vertex theory, Green correspondence, and Harish-Chandra induction. (English summary) **97j:20009**
Gudivok, P. M. (*with* Pogorilyak, V. I.) On indecomposable finite p-groups over commutative local rings. (Russian. English summary) **97j:20010**
Gyōja, Akihiko Cells and modular representations of Hecke algebras. **97k:20018**
Huang, Guoqiang On extended block induction. **97i:20011**
Humphreys, J. F. (*with* Tickner, S.) Principal indecomposable modules for twisted central products. **97k:20019**
Jost, Thomas Morita equivalence for blocks of finite general linear groups. **97f:20016**
Kondrat'ev, Anatolii Semenovich Decomposition matrices of finite quasisimple groups. (English summary) **97g:20012**
Koshitani, Shigeo (*with* Külshammer, Burkhard) A splitting theorem for blocks. **97g:20013**
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Kuisch, Eric B. (*with* van der Waall, Robert W.) Modular Frobenius groups. **97e:20010**
Külshammer, Burkhard (*with* Robinson, Geoffrey R.) Alperin-McKay implies Brauer's problem 21. **97a:20013**
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Laradji, A. A character correspondence for twisted group algebras. **97b:20009**
Linckelmann, Markus On stable and derived equivalences of blocks and algebras. **97g:20014**
— The isomorphism problem for cyclic blocks and their source algebras. **97h:20010**
— Stable equivalences of Morita type for self-injective algebras and p-groups. **97j:20011**
Marcus, Andrei Graded equivalences and Broué's conjecture. (English summary) **97i:20012**
— On equivalences between blocks of group algebras: reduction to the simple components. (English summary) **97m:20012**
Murai, Masafumi Normal subgroups and heights of characters. **97m:20013**
Navarro, Gabriel Coprime action, characters and decomposition numbers. **97e:20011**
— (*with* Willems, Wolfgang) When is a p-block a q-block? (English summary) **97i:20013**
Olsson, J. B. (*with* Uno, K.) Dade's conjecture for general linear groups in the defining characteristic. **97b:20010**
Pogorilyak, V. I. *see* **Gudivok, P. M., 97j:20010**
Puig, Lluis The center of a block. **97k:20020**
Richards, Matthew J. Some decomposition numbers for Hecke algebras of general linear groups. **97d:20009**
Rickard, Jeremy Splendid equivalences: derived categories and permutation modules. (English summary) **97b:20011**
Riehm, C. Equivalence of absolutely irreducible orthogonal representations of finite groups. **97c:20014**
Robinson, Geoffrey R. (*with* Thompson, John G.) On Brauer's $k(B)$-problem. **97m:20014**
— Local structure, vertices and Alperin's conjecture. **97c:20015**
— *see also* **Külshammer, Burkhard, 97a:20013**
Smith, Stephen D. A block complex collapsing to the Brauer tree. (English summary) (*see* **97b:20001**)
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Usami, Yoko Perfect isometries for blocks with abelian defect groups and the inertial quotients isomorphic to D_6, $Z_4 \times Z_2$ or $Z_3 \times Z_3$. **97a:20014**
— Perfect isometries and isotypies for blocks with abelian defect groups and the inertial quotients isomorphic to $Z_3 \times Z_3$. (English summary) **97c:20016**
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— *see also* **Kuisch, Eric B., 97e:20010**
Watanabe, Atumi Normal subgroups and multiplicities of indecomposable modules. **97m:20015**
Welsh, Trevor Alan Two-rowed Hecke algebra representations at roots of unity. (English summary) **97c:20017**
Willems, Wolfgang *see* **Navarro, Gabriel, 97i:20013**
Yakovlev, A. V. Homological definability of p-adic representations of groups with cyclic Sylow p-subgroup. **97m:20016**
Yamauchi, Kenichi On isomorphisms of a Brauer character ring onto another. **97m:20017**
Zhang, Guang Xiang Local fusion of Brauer subpairs. (Chinese. English and Chinese summaries) **97h:20011**
Zhu, Yixin Fong correspondence of $B_{e'}$ characters. (English summary) **97a:20015**
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An, Jianbei Dade's conjecture for Chevalley groups $G_2(q)$ in non-defining characteristics. (English summary) **97i:20016**
— The Alperin and Dade conjectures for the simple Held group. **97k:20025**
Benson, David John Stably splitting BG. **97c:55015**
Bessenrodt, C. Representations of the covering groups of the symmetric groups and their combinatorics. **97m:20018**
Bouc, Serge Construction de foncteurs entre catégories de G-ensembles. [Construction of functors between categories of G-sets] **97j:20018**
Broué, Michel Equivalences of blocks of group algebras. (English summary) **97c:20004**
Cabanes, Marc (*with* Enguehard, Michel) Local methods for blocks of reductive groups over a finite field. **97m:20060**
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Ku, Chao A characterization of M_{22}. (English summary) **97m:20025**
Kuisch, Eric B. (*with* van der Waall, Robert W.) Modular Frobenius groups. **97e:20010**

Li, Shi Rong Finite groups with exactly two class lengths of elements of prime power order. **97e:20024**
Li, Xian Hua 2-factor index groups. (Chinese. English and Chinese summaries) **97e:20046**
— (*with* Wang, Dian-jun) Some finite nonsolvable groups characterized by their solvable subgroups. (English summary) **97f:20033**
Pálfy, Péter Pál *see* **Freud, Róbert**, **97f:20028**
Pasini, Antonio *see* **Cuypers, Hans**, **97a:51017**
Robinson, Geoffrey R. (*with* Thompson, John G.) On Brauer's $k(B)$-problem. **97m:20014**
Shi, Wu Jie Pure quantitative characterization of finite simple groups. I. (English summary) **97i:20020**
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Stroth, G. Isomorphic subgroups. **97f:20034**
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van der Waall, Robert W. *see* **Kuisch, Eric B.**, **97e:20010**
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Zagorin, D. L. (*with* Kazarin, L. S.) Abelian ABA-factorizations of finite groups. (Russian) **97e:20033**

20D06 Simple groups: alternating groups and groups of Lie type [see also 20Gxx, 22Exx]

Chen, Zhong Hu Generalized simple groups of Lie type. (*see* **97m:20002**)
Dalla Volta, Francesca (*with* Lucchini, Andrea) Generation of almost simple groups. **97a:20022**
Lucchini, Andrea *see* **Dalla Volta, Francesca**, **97a:20022**
Makhnëv, A. A. *see* **Zyulyarkina, N. D.**, **97h:20019**
Pillen, Cornelius The first Cartan invariant of a finite group of Lie type for large p. **97d:20013**
Shi, Wu Jie Pure quantitative characterization of finite simple groups. I. (English summary) **97i:20020**
Vatansever, Bilal Efficient presentation for $\mathrm{PSL}(2,7) \times \mathrm{PSL}(2,3^2)$. (English summary) **97k:20028**
Wang, Dian-jun A characterization of $L_2(q)$. (English summary) **97g:20022**
Zyulyarkina, N. D. (*with* Makhnëv, A. A.) Cyclic TI-subgroups of order 4 in exceptional Chevalley groups. (Russian. English and Russian summaries) **97h:20019**

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Bi, Jianxing A characterization of $L_n(q)$ by the normalizers' orders of their Sylow subgroups. (English summary) **97m:20023**
Bleher, Frauke M. ★ Automorphismen von Gruppenringen und Blocktheorie. (German. German summary) [Automorphisms of group rings and block theory] **97j:20008**
Chen, Gui Yun On Thompson's conjecture. (English summary) **97e:20034**
Cohen, F. R. (*with* Harper, J. R.; Levi, Ran) On the homotopy theory associated to certain finite groups of 2-rank two. **97a:55012**
Colliot-Thélène, Jean-Louis (*with* Guralnick, Robert; Wiegand, Roger) Multiplicative groups of fields modulo products of subfields. (English summary) **97d:12004**
— (*with* Guralnick, Robert; Wiegand, Roger) Erratum: "Multiplicative groups of fields modulo products of subfields" [J. Pure Appl. Algebra **106** (1996), no. 3, 233–262; MR 97d:12004]. **97f:12003**
Curtis, R. T. Monomial modular representations and construction of the Held group. (English summary) **97e:20017**
Darafsheh, M. R. p-Steinberg characters of alternating and projective special linear groups. (English summary) **97b:20012**
Glauberman, George On the Suzuki groups and the outer automorphisms of S_6. **97f:20006**
Guralnick, Robert *see* **Colliot-Thélène, Jean-Louis; et al.**, **97d:12004** *and* **97f:12003**
Harper, J. R. *see* **Cohen, F. R.; et al.**, **97a:55012**
Ivanov, Aleksandr Anatol'evich (*with* Saxl, Jan) The character table of ${}^2E_6(2)$ acting on the cosets of Fi_{22}. (English summary) **97i:20017**
Lang, Mong-Lung Characterisations of A_{p+2} and $L_2(2^q)$. (English summary) **97m:20004**
Levi, Ran *see* **Cohen, F. R.; et al.**, **97a:55012**
Liebeck, Martin W. (*with* Shalev, Aner) Simple groups, probabilistic methods, and a conjecture of Kantor and Lubotzky. (English summary) **97e:20106b**
Liu, Shao Ping A class of maximal solvable subgroups of the generalized simple group ${}_2D_n$ of Lie type. (Chinese. English and Chinese summaries) **97d:20062**
Sanchini, Paolo (*with* Tamburini Bellani, Maria Chiara) Constructive (2, 3)-generation: a permutational approach. (English summary) **97i:20040**
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Seitz, G. M. Algebraic groups. (English summary) **97d:20055**
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Smith, Stephen D. (*with* Yoshiara, Satoshi) Group geometries and error-correcting codes. (English summary) **97c:94016**
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Wiegand, Roger *see* **Colliot-Thélène, Jean-Louis; et al.**, **97d:12004** *and* **97f:12003**
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20D08 Simple groups: sporadic groups

Conway, John H. The $\sqrt{\text{Monster}}$ construction. **97c:20023**
Curtis, R. T. Monomial modular representations and construction of the Held group. (English summary) **97e:20017**
— (*with* Hasan, Z.) Symmetric representation of the elements of the Janko group J_1. (English summary) **97m:20024**
Ganief, Shahiem (*with* Moori, Jamshid) (p, q, r)-generations of the smallest Conway group Co_3. (English summary) **97k:20029**
— (*with* Moori, Jamshid) (p, q, r)-generations and nX-complementary generations of the sporadic groups HS and McL. (English summary) **97k:20030**
Griess, Robert L., Jr. Codes, loops and p-locals. **97c:20024**
Hasan, Z. *see* **Curtis, R. T.**, **97m:20024**
Hrabě de Angelis, Jörg A presentation and a representation of the Held group. **97a:20023**
Hsu, Tim Some quilts for the Mathieu groups. (English summary) **97a:20024**
Ivanov, Aleksandr Anatol'evich (*with* Pasechnik, D. V.; Shpektorov, S. V.) Non-abelian representations of some sporadic geometries. (English summary) **97b:20016**
Ku, Chao A characterization of M_{22}. (English summary) **97m:20025**
Moori, Jamshid On the ranks of the Fischer group F_{22}. (English summary) **97a:20025**
— *see also* **Ganief, Shahiem**, **97k:20029** *and* **97k:20030**
Norton, Simon P. The Monster algebra: some new formulae. (English summary) **97b:20017**
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Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol'evich; et al.**, **97b:20016**
Soules, Panagiotis C. (*with* Woldar, Andrew J.) Representing the sporadic groups as noncentral automorphisms of p-groups. (English summary) **97e:20018**
Wilson, Robert A. The symmetric genus of the Fischer group Fi_{23}. (English summary) **97h:20020**
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Bleher, Frauke M. ★ Automorphismen von Gruppenringen und Blocktheorie. (German. German summary) [Automorphisms of group rings and block theory] **97j:20008**
Bonisoli, Arrigo (*with* Korchmáros, Gábor) Suzuki groups, one-factorizations and Lüneburg planes. (English summary) **97j:51009**
Borcherds, Richard E. Sporadic groups and string theory. **97j:11020**
Breuer, Thomas (*with* Lux, Klaus) The multiplicity-free permutation characters of the sporadic simple groups and their automorphism groups. (English summary) **97c:20020**
Chen, Gui Yun On Thompson's conjecture. (English summary) **97e:20034**
Cohn, Harvey (*with* McKay, John) Spontaneous generation of modular invariants. (English summary) **97d:11071**
Cuypers, Hans Extended generalized hexagons and the Suzuki chain. (English summary) **97e:51005**
— (*with* Kasikova, Anna; Pasechnik, D. V.) Multiple extensions of generalized hexagons related to the simple groups McL and Co_3. (English summary) **97i:51007**
Dalla Volta, Francesca (*with* Lucchini, Andrea) Generation of almost simple groups. **97a:20022**
Ferenbaugh, Charles R. Replication formulae for $n|h$-type Hauptmoduls. **97b:11058**
Harada, Koichiro (*with* Lang, Mong-Lung) The McKay-Thompson series associated with the irreducible characters of the Monster. (English summary) **97b:11059**
Ivanov, Aleksandr Anatol'evich (*with* Saxl, Jan) The character table of ${}^2E_6(2)$ acting on the cosets of Fi_{22}. (English summary) **97i:20017**
Jansen, Christoph (*with* Wilson, Robert A.) The minimal faithful 3-modular representation for the Lyons group. (English summary) **97a:20021**
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Korchmáros, Gábor *see* **Bonisoli, Arrigo**, **97j:51009**
Kotlica, Sonja Verification of Dade's conjecture for Janko group J_3. (English summary) **97k:20026**
Kultze, Rolf Elliptic genera and the moonshine module. **97h:11043**
Lang, Mong-Lung *see* **Harada, Koichiro**, **97b:11059**
Linton, Stephen A. (*with* Lux, Klaus; Soicher, Leonard H.) The primitive distance-transitive representations of the Fischer groups. (English summary) **97c:20021**
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Lux, Klaus *see* **Breuer, Thomas**, **97c:20020** *and* **Linton, Stephen A.; et al.**, **97c:20021**
Martin, Yves L. Multiplicative η-quotients. (English summary) **97d:11070**
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Meixner, Thomas Buekenhout geometries of rank 3 which involve the Petersen graph. **97f:51021**
Milgram, R. James (*with* Tezuka, Michishige) The geometry and cohomology of M_{12}. II. **97f:20064**
Montague, Paul Stewart Ternary codes and Z_3-orbifold constructions of conformal field theories. (English summary) **97j:81327**
Norton, Simon P. Free transposition groups. (English summary) **97c:20044**
Pasechnik, D. V. *see* **Cuypers, Hans; et al.**, **97i:51007**
Praeger, Cheryl E. (*with* Soicher, Leonard H.) ★ Low rank representations and graphs for sporadic groups. (English summary) **97m:20006**
Rowley, Peter (*with* Walker, Louise) On the Fi_{22}-minimal parabolic geometry. (English summary) **97f:51022**
Ryba, A. J. E. Modular Moonshine? **97c:20022**
Saxl, Jan *see* **Ivanov, Aleksandr Anatol'evich**, **97i:20017**
Sepanski, Mark R. Kostant's conjecture and $L_2(q)$ invariant theory in the rank two Lie groups. **97g:20020**
Sin, Peter Modular representations of the Hall-Janko group. (English summary) **97j:20016**
Smith, Gene Ward Replicant powers for higher genera. **97h:11044**
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Tezuka, Michishige (*with* Yagita, Nobuaki) On odd prime components of cohomologies of sporadic simple groups and the rings of universal stable elements. **97e:20073**
— *see also* **Milgram, R. James**, **97f:20064**
Tuite, Michael P. Generalised Moonshine and abelian orbifold constructions. **97f:11029**
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20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

Anis'kov, V. V. Classification of solvable irreducible local formations with p-nilpotent defect 2. (Russian. English and Russian summaries) **97e:20019**
Arroyo-Jordá, P. (*with* Ballester-Bolinches, A.; Pérez-Ramos, M. D.) On complemented Schunck classes of finite groups. **97f:20019**

Asaad, M. (*with* Ramadan, Mohamed; Elkholi, A. M.) On solvable T-groups. (English summary) **97e:20020**
Asiáin, María José Classes of generalized nilpotent and solvable groups. (Russian. Russian summary) **97m:20026**
Avdashkova, L. P. (*with* Kamornikov, S. F.) On normalizers of $\mathfrak{F}$-reachable subgroups. (Russian. English and Russian summaries) **97d:20014**
Ballester-Bolinches, A. (*with* Jiménez Seral, Paz; Ezquerro Marín, Luis Miguel) On saturated formations of finite groups. (Russian. Russian summary) **97e:20021**
— (*with* Pedraza-Aguilera, M. C.) On minimal subgroups of finite groups. **97j:20019**
— (*with* Zhao, Yaoqing) On maximal subgroups of finite groups and theta pairs. (English summary) **97g:20023**
— (*with* Pérez-Ramos, M. D.) A question of R. Maier concerning formations. **97f:20020**
— (*with* Pérez-Ramos, M. D.) Two questions of L. A. Shemetkov on critical groups. **97m:20027**
— (*with* Pérez-Ramos, M. D.) On a question of Chambers and Makan. **97a:20026**
— *see also* **Arroyo-Jordá, P.; et al., 97f:20019**
Bhattacharyya, Ajay Some characterisations of finite π-solvable and p-solvable groups with the help of primitive group. **97f:20021**
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Carocca, Angel A note on the product of $\mathscr{F}$-subgroups in a finite group. (English summary) **97f:20022**
— (*with* Matos, Helder) Some solvability criteria for finite groups. (English summary) **97k:20031**
Chen, Hua[4] On the solvability of finite groups (extended abstract). (Chinese)
Chen, Zhong Mu Finite groups whose Sylow-normalizers belong to a formation $\mathscr{F}$. (Chinese. English and Chinese summaries) **97j:20020**
Chetiya, Buddha Prasad (*with* Dutta, Sanjay Kumar; Patra, Kuntala) On the existence of two-generator finite solvable groups with short derived series. (English summary) **97c:20025**
Covaci, Rodica On primitive π-solvable groups. (English and Romanian summaries)
— A lattice of π-Schunck classes. (English and Romanian summaries)
Csörgő, Piroska The properties of T^*-groups. (English summary) **97h:20021**
Dutta, Sanjay Kumar *see* **Chetiya, Buddha Prasad; et al., 97c:20025**
Dzharadin, Dzhekhad On p-saturated formations with systems of hereditary subformations. (Russian. English and Russian summaries) **97g:20024**
— (*with* Skiba, A. N.) Partially local formations with systems of hereditary subformations. (Russian. English and Russian summaries) **97m:20028**
Elkholi, A. M. *see* **Asaad, M.; et al., 97e:20020**
Ezquerro Marín, Luis Miguel *see* **Ballester-Bolinches, A.; et al., 97e:20021**
Feldman, Arnold D. An intersection property of Sylow p-subgroups affecting p-length in finite p-solvable groups. **97e:20022**
Gállego, M. Pilar Fitting pairs from direct limits and the Lockett conjecture. **97e:20023**
Gao, Wei Dong An improvement of the Erdős-Ginzburg-Ziv theorem. (Chinese. English and Chinese summaries) **97i:20021**
Guo, Wen Bin Theory of formations. **97i:20022**
— (*with* Kamornikov, S. F.) A characterization of finite metanilpotent groups. (Chinese. English and Chinese summaries) **97k:20032**
— Local formations of groups in which subformations of the form $\mathscr{N}_p$ are complemented. (Chinese)
Iranzo, María Jesús (*with* Navarro, Gabriel; Pérez Monasor, Francisco) A conjecture on the number of conjugacy classes in a p-solvable group. (English summary) **97a:20027**
Jiménez Seral, Paz *see* **Ballester-Bolinches, A.; et al., 97e:20021**
Kamornikov, S. F. *see* **Avdashkova, L. P., 97d:20014** *and* **Guo, Wen Bin, 97k:20032**
Li, Shi Rong Finite groups with exactly two class lengths of elements of prime power order. **97e:20024**
Martínez López, Consuelo Power subgroups of pro-(finite soluble) groups. (English summary) **97e:20025**
Matos, Helder *see* **Carocca, Angel, 97k:20031**
Monakhov, V. S. Finite groups with a given set of Schmidt subgroups. (Russian. Russian summary) **97a:20028**
Navarro, Gabriel *see* **Iranzo, María Jesús; et al., 97a:20027**
Parmeggiani, Gemma Soluble $(HN)_2$-groups. (English summary) **97a:20029**
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Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A., 97a:20026**; **Arroyo-Jordá, P.; et al., 97f:20019**; **Ballester-Bolinches, A., 97f:20020** *and* **97m:20027**
Ramadan, Mohamed *see* **Asaad, M.; et al., 97e:20020**
Saboyá-Baquero, Martha The lattice of very-well-placed subgroups. **97f:20023**
Safonov, V. G. On multiply local formations with systems of normally hereditary subformations. (Russian)
— On solvable local formations of nilpotent defect 3. (Russian. English and Russian summaries)
— *see also* **Skiba, A. N., 97h:20022**
Semenchuk, V. N. Solvable totally local formations. (Russian. Russian summary) **97b:20018**
— Solvable $\mathfrak{F}$-radical formations. (Russian. Russian summary) **97e:20026**
Shemetkov, L. A. (*with* Vasil'ev, A. F.) Nonlocal formations of finite groups. (Russian. English and Russian summaries) **97m:20029**
Skiba, A. N. On local formations with complemented local subformations. (Russian) **97e:20027**
— (*with* Safonov, V. G.) On a Frattini subformation of a multiply local formation. (Russian. English and Russian summaries) **97h:20022**
— *see also* **Dzharadin, Dzhekhad, 97m:20028**
Tiedt, Gunter About finite solvable groups with exactly four p-regular conjugacy classes. (English summary) **97d:20015**
Titov, G. N. A generalization of the condition of the Lagrange property of groups. (Russian. Russian summary) **97c:20026**
Torres Iglesias, Miguel An approach to outer Fitting pairs defined by chief factors. **97k:20033**
Vasil'ev, A. F. *see* **Shemetkov, L. A., 97m:20029**
Vedernikov, V. A. Subdirect products of finite groups with Hall π-subgroups. (Russian) **97b:20019**
Wang, Yanming c-normality of groups and its properties. (English summary) **97b:20020**
Zhang, Xiu Li (*with* Bian, Ping Xi) Formations constructed from group extensions. (Chinese. English and Chinese summaries) **97m:20030**
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— (*with* Li, Shi Rong) On minimal subgroups of finite groups. II. (English summary) **97k:20057**
Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.) π-normally embedded subgroups of finite soluble groups. **97a:20032**
— *see also* **Asaad, M.; et al., 97e:20036**
Berkovich, Yakov (*with* Kazarin, L. S.) Finite nonsolvable groups in which only two nonlinear irreducible characters have equal degrees. (English summary) **97j:20005a**
— Finite solvable groups in which only two nonlinear irreducible characters have equal degrees. (English summary) **97j:20005b**
— On π-separable groups. (English summary) **97k:20035**
Bian, Ping Xi (*with* Wang, Pin Chao) Conditions for supersolvability of groups. (Chinese. English and Chinese summaries) **97i:20041**
— (*with* Wen, Xi Jiu; Wang, Pin Chao) Some necessary and sufficient conditions for a group to be solvable. (Chinese. English and Chinese summaries) **97h:20037**
Gavioli, Norberto Subgroups of finite soluble groups inducing the same permutation character. (English summary) **97i:20007**
Hai, Jin Ke Criticality problems of p-local formations. (Chinese. English and Chinese summaries) **97e:20055**
Hawthorn, I. J. More generalised Sylow theorems. (English summary) **97i:20025**
Kazarin, L. S. *see* **Berkovich, Yakov, 97j:20005a**
Li, Shi Rong *see* **Asaad, M., 97k:20057**
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Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A., 97a:20032**
Vesanen, Ari Solvable groups and loops. **97a:20115**
Wang, Pin Chao *see* **Bian, Ping Xi; et al., 97h:20037** *and* **97i:20041**
Wang, Yanming Maximal subgroups of finite groups. (English summary) **97f:20037**
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20D15 Nilpotent groups, p-groups

Ban, Gui Ning *see* **Yu, Shu Xia; et al., 97c:20029**
Baumann, Bernd Classical groups acting on nilpotent groups. **97b:20021**
Bhattacharyya, Ajay Some results on finite nilpotent group via theta pairs and index complex of a maximal subgroup. (English summary) **97e:20028**
Dark, Rex (*with* Scoppola, Carlo M.) On Camina groups of prime power order. **97b:20022**
Gavioli, Norberto The number of automorphisms of groups of order p^7. (English summary) **97a:20030**
Kiming, Ian Some remarks on a certain class of finite p-groups. (English summary) **97a:20031**
Krekain, V. A. (*with* Mel'nik, I. I.) Sufficient conditions for the complementability of maximal cyclic subgroups in a finite 2-group. (Russian. English and Ukrainian summaries) **97b:20023**
Mel'nik, I. I. *see* **Krekain, V. A., 97b:20023**
Nekrasov, K. G. On some 2-groups with a small noncyclic Frattini subgroup. (Russian. Russian summary) **97b:20024**
Newman, M. F. (*with* Sauerbier, Gabriele; Wisliceny, J.) Groups of prime-power order with a small number of relations. **97d:20016**
Nwabueze, K. K. A Burnside ring-theoretic proof of T. Y. Lam's results concerning the Artin exponent of finite groups. (English summary) **97c:20027**
Parker, Christopher (*with* Rowley, Peter) Quadratic functions and GF(q)-groups. (English summary) **97k:20034**
Parmeggiani, Gemma On finite p-groups of odd order with many subgroups 2-subnormal. **97f:20024**
Rowley, Peter *see* **Parker, Christopher, 97k:20034**
Sauerbier, Gabriele *see* **Newman, M. F.; et al., 97d:20016**
Scoppola, Carlo M. *see* **Dark, Rex, 97b:20022**
Shalev, Aner Finite p-groups. (English summary) **97h:20023**
Starostin, A. I. Finite 2-groups with a cyclic Frattini subgroup. (Russian. English and Russian summaries) **97c:20028**
Tan, Zhong *see* **Xiao, Wen Jun, 97i:20024**
Verardi, Libero A class of special p-groups. (English summary) **97i:20023**
Wang, Kun Ren Minimal subgroups and nilpotency. (Chinese. English and Chinese summaries) **97d:20017**
Wilkens, Bettina A note on 2-automorphic 2-groups. **97h:20024**
Wisliceny, J. *see* **Newman, M. F.; et al., 97d:20016**
Xiao, Wen Jun (*with* Tan, Zhong) Some results on p^a-nilpotent groups. (Chinese. English and Chinese summaries) **97i:20024**
Yu, Shu Xia (*with* Ban, Gui Ning; Zhang, Jingsong) Minimal p-groups with automorphism groups of order p^7. (English summary) **97c:20029**
Zenkov, V. I. Solution of Mazurov's problem. (English summary) **97h:20025**
Zhang, Jingsong *see* **Yu, Shu Xia; et al., 97c:20029**

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Chen, Huan Gen p-subgroups of K_0-groups. (Chinese. English and Chinese summaries) **97a:19001**
Gudivok, P. M. (*with* Pogorilyak, V. I.) On indecomposable finite p-groups over commutative local rings. (Russian. English summary) **97j:20010**

Hanaki, Akihide A condition on lengths of conjugacy classes and character degrees. **97b:20007**
Leary, Ian J. Erratum to: "p-groups are not determined by their integral cohomology groups" [Bull. London Math. Soc. **27** (1995), no. 6, 585–589; MR 96j:20076]. **97b:20008**
Madan, Manohar L. (*with* Rzedowski-Calderón, Martha; Villa Salvador, Gabriel) Galois extensions with bounded ramification in characteristic p. On a question of S. Abhyankar. (English summary) **97e:12005**
Newman, M. F. (*with* O'Brien, E. A.) Application of computers to questions like those of Burnside. II. (English summary) **97k:20002**
de Nijs, Cynthia H. W. M. *see* **van der Waall, Robert W., 97e:20030**
O'Brien, E. A. *see* **Newman, M. F., 97k:20002**
Pogorilyak, V. I. *see* **Gudivok, P. M., 97j:20010**
Rzedowski-Calderón, Martha *see* **Madan, Manohar L.; et al., 97e:12005**
Soules, Panagiotis C. (*with* Woldar, Andrew J.) Representing the sporadic groups as noncentral automorphisms of p-groups. (English summary) **97e:20018**
Villa Salvador, Gabriel *see* **Madan, Manohar L.; et al., 97e:12005**
van der Waall, Robert W. (*with* de Nijs, Cynthia H. W. M.) On the embedding of a finite group as Frattini subgroup. **97e:20030**
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Zhang, Rong[1] 2-maximal subgroups of Sylow subgroups and p-nilpotent groups. (Chinese. English and Chinese summaries) **97k:20036**

20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

Ballester-Bolinches, A. (*with* Pérez-Ramos, M. D.) π-normally embedded subgroups of finite soluble groups. **97a:20032**
Berkovich, Yakov On π-separable groups. (English summary) **97k:20035**
Feldman, Arnold D. An intersection property of Hall π-subgroups affecting π-length in finite π-solvable groups. **97e:20029**
Flavell, Paul A characterisation of p-soluble groups. **97m:20031**
Guo, Wen Bin On Doktorov's theorem. (Chinese. English and Chinese summaries) **97c:20030**
— Finite groups with given indices of normalizers of Sylow subgroups. (Russian. Russian summary) **97j:20021**
Hawthorn, I. J. More generalised Sylow theorems. (English summary) **97i:20025**
Jiang, Yan π-center arrays. (Chinese. English and Chinese summaries)
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A., 97a:20032**
Stellmacher, Bernd A characteristic subgroup of Σ_4-free groups. (English summary) **97d:20018**
Tyutyanov, V. N. Factorizations by π-nilpotent factors. (Russian. Russian summary) **97h:20026**
Wang, Kun Ren Finite groups with all Sylow subgroups seminormal. (Chinese. English and Chinese summaries) **97c:20031**
— p-quasinormal groups and p-nilpotent groups. (Chinese. English and Chinese summaries) **97f:20025**
Zhang, Rong[1] 2-maximal subgroups of Sylow subgroups and p-nilpotent groups. (Chinese. English and Chinese summaries) **97k:20036**

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Benson, David John Fusion in compact Lie groups. **97j:22015**
Chen, Zhong Mu Finite groups whose Sylow-normalizers belong to a formation $\mathcal{F}$. (Chinese. English and Chinese summaries) **97j:20020**
Csörgő, Piroska The properties of T^*-groups. (English summary) **97h:20021**
Dixon, Martyn R. ★ Sylow theory, formations and Fitting classes in locally finite groups. **97d:20035**
Feldman, Arnold D. An intersection property of Sylow p-subgroups affecting p-length in finite p-solvable groups. **97e:20022**
Foote, Richard M. Sylow 2-subgroups of Galois groups arising as minimal counterexamples to Artin's conjecture. **97j:11056**
Guo, Wen Bin (*with* Kamornikov, S. F.) A characterization of finite metanilpotent groups. (Chinese. English and Chinese summaries) **97k:20032**
Kamornikov, S. F. *see* **Guo, Wen Bin, 97k:20032**
Tiedt, Gunter About finite solvable groups with exactly four p-regular conjugacy classes. (English summary) **97d:20015**
You, Hong Sylow subgroups of classical groups over finite commutative rings. (Chinese. English and Chinese summaries) **97f:20058**

20D25 Special subgroups (Frattini, Fitting, etc.)

Bian, Ping Xi *see* **Lu, Zai Ping, 97a:20033**
Eick, Bettina The converse of a theorem of W. Gaschütz on Frattini subgroups. **97j:20022**
Lu, Zai Ping (*with* Bian, Ping Xi) π-Fitting subgroups. (Chinese. English and Chinese summaries) **97a:20033**
Navarro, Gabriel Inducing characters and nilpotent subgroups. (English summary) **97a:20034**
de Nijs, Cynthia H. W. M. *see* **van der Waall, Robert W., 97e:20030**
van der Waall, Robert W. (*with* de Nijs, Cynthia H. W. M.) On the embedding of a finite group as Frattini subgroup. **97e:20030**
Wang, Kun Ren p-quasinormal subgroups. II. (Chinese. English and Chinese summaries) **97a:20035**
Wang, Yanming c-normality and solvability of groups. (English summary) **97c:20032**

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Azarian, Mohammad K. On the near Frattini subgroup. (English summary) **97c:20043**
Iiams, Joel E. (*with* Liebler, Robert A.; Smith, Kenneth W.) Difference sets in nilpotent groups with large Frattini quotient: geometric methods and (375, 34, 3). (English summary) **97c:05030**
Kantor, William M. Note on Lie algebras, finite groups and finite geometries. **97h:17008**
Liebler, Robert A. *see* **Iiams, Joel E.; et al., 97c:05030**
Nekrasov, K. G. On some 2-groups with a small noncyclic Frattini subgroup. (Russian. Russian summary) **97b:20024**
Smith, Kenneth W. *see* **Iiams, Joel E.; et al., 97c:05030**
Starostin, A. I. Finite 2-groups with a cyclic Frattini subgroup. (Russian. English and Russian summaries) **97c:20028**
Wang, Yanming Maximal subgroups of finite groups. (English summary) **97f:20037**

20D30 Series and lattices of subgroups

Ashrafi, A. R. *see* **Darafsheh, M. R., (97e:00007)**
Bianchi, Mariagrazia (*with* Gillio Berta Mauri, Anna; Verardi, Libero) Finite groups and subgroup-permutability. (English summary) **97a:20036**
Darafsheh, M. R. (*with* Ashrafi, A. R.) The problem of intervals in the subgroup lattice of a finite group. (English summary) (*see* **97e:00007**)
Das, Kaustuv Mukul Simple connectivity of the Quillen complex of $GL_n(q)$. (English summary) **97b:20025**
Deaconescu, Marian (*with* Khazal, Reyadh R.) A characterization of the finite cyclic groups. (English summary)
Gillio Berta Mauri, Anna *see* **Bianchi, Mariagrazia; et al., 97a:20036**
Khazal, Reyadh R. *see* **Deaconescu, Marian**
Marshall, Mary K. Numbers of conjugacy class sizes and derived lengths for A-groups. (English summary) **97j:20023**
Regonati, Francesco Upper semimodularity of finite subgroup lattices. (English summary) **97c:20033**
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Butler, Lynne M. Order analogues and Betti polynomials. (English summary) **97h:06006**
Chetiya, Buddha Prasad (*with* Dutta, Sanjay Kumar; Patra, Kuntala) On the existence of two-generator finite solvable groups with short derived series. (English summary) **97c:20025**
Dutta, Sanjay Kumar *see* **Chetiya, Buddha Prasad; et al., 97c:20025**
Ellis, Graham Capability, homology, and central series of a pair of groups. **97d:20067**
Patra, Kuntala *see* **Chetiya, Buddha Prasad; et al., 97c:20025**
Saboyá-Baquero, Martha The lattice of very-well-placed subgroups. **97f:20023**

20D35 Subnormal subgroups

Items with secondary classifications in 20D35

Asaad, M. (*with* Ramadan, Mohamed; Elkholi, A. M.) On solvable T-groups. (English summary) **97e:20020**
Elkholi, A. M. *see* **Asaad, M.; et al., 97e:20020**
Kamornikov, S. F. (*with* Sel'kin, M. V.) On the influence of maximal subgroups of prime power index on the structure of a finite group. (Russian) **97b:20038**
Parmeggiani, Gemma Soluble $(HN)_2$-groups. (English summary) **97a:20029**
— On finite p-groups of odd order with many subgroups 2-subnormal. **97f:20024**
Ramadan, Mohamed *see* **Asaad, M.; et al., 97e:20020**
Sel'kin, M. V. *see* **Kamornikov, S. F., 97b:20038**

20D40 Products of subgroups

Arad, Zvi (*with* Fisman, Elsa; Muzychuk, M. E.) The structure of metabelian finite groups. **97a:20037**
Blackburn, Norman (*with* Deaconescu, Marian; Mann, Avinoam) Finite equilibrated groups. **97f:20026**
Dalla Volta, Francesca (*with* Lucchini, Andrea) Minimal number of generators and composition length of socle in finite groups. **97e:20031**
Deaconescu, Marian *see* **Blackburn, Norman; et al., 97f:20026**
Fisman, Elsa *see* **Arad, Zvi; et al., 97a:20037**
Gibson, Gregory A. A generalization of complete groups. **97e:20032**
Kazarin, L. S. *see* **Zagorin, D. L., 97e:20033**
Kirtland, Joseph Direct products of inseparable finite groups. II. (English summary) **97j:20024**
Liebeck, Martin W. (*with* Praeger, Cheryl E.; Saxl, Jan) On factorizations of almost simple groups. **97i:20026**
Lucchini, Andrea *see* **Dalla Volta, Francesca, 97e:20031**
Mann, Avinoam *see* **Blackburn, Norman; et al., 97f:20026**
Muzychuk, M. E. *see* **Arad, Zvi; et al., 97a:20037**
Praeger, Cheryl E. *see* **Liebeck, Martin W.; et al., 97i:20026**
Saxl, Jan *see* **Liebeck, Martin W.; et al., 97i:20026**
Virág, Imre On factorization of group. (Romanian summary)
Wang, Kun Ren On complements of normal subgroups of finite groups related to maximal subgroups. (English and Chinese summaries) **97h:20027**
Zagorin, D. L. (*with* Kazarin, L. S.) Abelian ABA-factorizations of finite groups. (Russian) **97e:20033**

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Amberg, Bernhard (*with* Sysak, Yaroslav P.) Locally soluble products of two subgroups with finite rank. **97c:20053**
Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On finite products of totally permutable groups. (English summary) **97e:20054**
Carocca, Angel (*with* Matos, Helder) Some solvability criteria for finite groups. (English summary) **97k:20031**
Kreknin, V. A. (*with* Mel'nik, I. I.) Sufficient conditions for the complementability of maximal cyclic subgroups in a finite 2-group. (Russian. English and Ukrainian summaries) **97b:20023**

Matos, Helder *see* **Carocca, Angel, 97k:20031**
Mel'nik, I. I. *see* **Kreknin, V. A., 97b:20023**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A.; et al., 97e:20054**
Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A.; et al., 97e:20054**
Puusemp, Peeter A characterization of the semidirect product of cyclic groups by its endomorphism semigroup. (English and Estonian summaries) **97i:20039**
Sysak, Yaroslav P. *see* **Amberg, Bernhard, 97c:20053**

20D45 Automorphisms

Deaconescu, Marian (*with* Silberberg, Gheorghe) Finite co-Dedekindian groups. **97c:20034**
Huang, Ping An Automorphism groups of order pqr. (Chinese. English and Chinese summaries)
Li, Shi Rong Finite groups with automorphism group of order 2^3p. (English summary) **97d:20019**
— Finite groups with automorphism group of order p^3q (p odd). (English summary) **97d:20020**
— A class of groups of odd order that cannot be automorphism groups of finite groups. (Chinese. English and Chinese summaries) **97j:20025**
Silberberg, Gheorghe *see* **Deaconescu, Marian, 97c:20034**
Syskin, S. A. Endomorphisms of projections in finite groups. (Russian. Russian summary) **97d:20021**
Wang, Yanming A generalization of Hall-Higman's reduction theorem. (English summary) **97f:20027**

Items with secondary classifications in 20D45

Ban, Gui Ning *see* **Yu, Shu Xia; et al., 97c:20029**
Ellis, Graham Capability, homology, and central series of a pair of groups. **97d:20067**
Gavioli, Norberto The number of automorphisms of groups of order p^7. (English summary) **97a:20030**
Glauberman, George On the Suzuki groups and the outer automorphisms of S_6. **97f:20006**
Roggenkamp, Klaus W. (*with* Zimmermann, Alexander) Outer group automorphisms may become inner in the integral group ring. (English summary) **97b:20004**
Wilkens, Bettina A note on 2-automorphic 2-groups. **97h:20024**
Yu, Shu Xia (*with* Ban, Gui Ning; Zhang, Jingsong) Minimal p-groups with automorphism groups of order p^7. (English summary) **97c:20029**
Zhang, Jingsong *see* **Yu, Shu Xia; et al., 97c:20029**
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20D50 Covering of subgroups

Items with secondary classifications in 20D50

Asiáin, María José Classes of generalized nilpotent and solvable groups. (Russian. Russian summary) **97m:20026**

20D60 Arithmetic and combinatorial problems

Ambrosiewicz, Jan If K is a real field then $\mathrm{cn}(\mathrm{PSL}(2, K)) = 4$.
Arad, Zvi (*with* Fisman, Elsa; Muzychuk, M. E.) Order evaluation of products of subsets in finite groups and its applications. I. **97d:20022**
Bertram, Edward (*with* Herzog, Marcel) On regular bases of finite groups. **97h:20028**
Brailovsky, Leonid (*with* Herzog, Marcel) Counting squares of two-subsets in finite groups. **97d:20023**
Chen, Gui Yun On Thompson's conjecture. (English summary) **97c:20034**
Ellis, Graham On the tensor square of a prime power group. **97d:20025**
Fisman, Elsa *see* **Arad, Zvi; et al., 97d:20022**
Freud, Róbert (*with* Pálfy, Péter Pál) On the possible number of elements of given order in a finite group. (English summary) **97f:20028**
Fulman, Jason Divisibility results on the number of conjugacy classes in finite groups. **97d:20026**
Gao, Wei Dong (*with* Lin, Hong Fei) Some estimates of Davenport's constant. (Chinese. English and Chinese summaries) **97c:20035**
— A combinatorial problem on finite abelian groups. (English summary) **97a:20038**
— On a combinatorial problem connected with factorizations. **97k:20038**
— An addition theorem for finite cyclic groups. (English summary) **97k:20039**
— On the number of zero sum subsequences. (English summary) **97k:20040**
— (*with* Yang, Yi Xian) Note on a combinatorial constant. (Chinese. English and Chinese summaries)
Hamidoune, Yahya Ould (*with* Rödseth, Öystein J.) On bases for σ-finite groups. (English summary) **97k:20041**
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Li, Cai Heng The finite groups with the 2-DCI property. (English summary) **97c:20036**
Lin, Hong Fei *see* **Gao, Wei Dong, 97c:20035**
Mann, Avinoam (*with* Martínez López, Consuelo) The exponent of finite groups. **97b:20026**
Martínez López, Consuelo *see* **Mann, Avinoam, 97b:20026**
Mitchell, Curtis Z. (*with* Sherman, Gary J.) Counting products of triples in finite groups. **97a:20039**
Muzychuk, M. E. *see* **Arad, Zvi; et al., 97d:20022**
Pálfy, Péter Pál *see* **Freud, Róbert, 97f:20028**
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Slilaty, Daniel (*with* Vanderkam, Jeffrey M.) Bounds on squares of two-sets. (English summary) **97d:20024**
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Items with secondary classifications in 20D60

Acciaro, Vincenzo The probability of generating some common families of finite groups. (English summary) **97e:20106**
Blackburn, Simon R. Node bisectors of Cayley graphs. (English summary) **97h:05078**
Cai, Ying Chun Some asymptotic formulas for enumeration of groups. (Chinese. English and Chinese summaries) **97e:11117**
Egorychev, G. P. (*with* Levchuk, V. M.) Enumeration of characteristic subgroups of unipotent Lie-type groups. (English summary) **97g:20051**
Kochetkov, Yu. Yu. Plane trees and their monodromy groups. (Russian) **97a:05104**
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Ma, Siu Lun (*with* Sehgal, Surinder K.) A family of semi-regular divisible difference sets. (English summary) **97m:05037**
Meisner, D. B. A difference set construction of Turyn adapted to semi-direct products. (English summary) **97e:05046**
Sehgal, Surinder K. *see* **Ma, Siu Lun, 97m:05037**
Szabó, Sándor Multiple simulated factorizations. (English summary) **97g:20062**
Vikas, Narayan An $O(n)$ algorithm for abelian p-group isomorphism and an $O(n \log n)$ algorithm for abelian group isomorphism. (English summary) **97d:68097**
Xiang, Qing Note on Paley type partial difference sets. (English summary) **97d:05042**
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Ban, Gui Ning (*with* Yu, Shu Xia) A class of finite groups that cannot be full automorphism groups. (Chinese. English and Chinese summaries) **97m:20032**
Bowler, Andrew Orthomorphisms of dihedral groups. (English summary) (*see* **97k:05002**)
Efrat, Ido Lifting of generating subgroups. (English summary) **97j:20026**
Foote, Richard M. A characterization of finite groups containing a strongly closed 2-subgroup. **97k:20042**
Iiyori, Nobuo (*with* Yamaki, Hiroyoshi) A conjecture of Frobenius [translation of Sûgaku **45** (1993), no. 4, 316–329]. (*see* **97a:00046**)
Kedlaya, Kiran S. Large product-free subsets of finite groups. (English summary) **97m:20033**
Lal, Ramji (*with* Shukla, R. P.) Perfectly stable subgroups of finite groups. **97a:20040**
Peterson, Gary Lee Finite metacyclic 1-E and 1-A groups. **97h:20029**
Shukla, R. P. *see* **Lal, Ramji, 97a:20040**
Strunkov, S. P. On some constructions for equations on finite groups. (Russian)
Wang, Yanming A remark on operating groups. (English summary) **97m:20034**
Yamaki, Hiroyoshi *see* **Iiyori, Nobuo, (97a:00046)**
Yu, Shu Xia *see* **Ban, Gui Ning, 97m:20032**
Zuzuk, L. Ī. Finite nondispersive groups in which all the subgroups of nonprimary index are metacyclic. (Ukrainian. English and Ukrainian summaries)

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Belonogov, V. A. Criteria for nonsimplicity of a finite group in the language of characters. II. (Russian. English and Russian summaries) **97f:20012**
Bresser, Klaus (*with* Müller-Hoissen, Folkert; Dimakis, Aristophanes; Sitarz, Andrzej) Non-commutative geometry of finite groups. (English summary) **97e:58015**
Chen, Gui Yun (*with* Chen, Zhong Mu; Shi, Wu Jie) Structure of finite groups. **97g:20001**
Chen, Zhong Mu *see* **Chen, Gui Yun; et al., 97g:20001**
Chigira, Naoki The solutions of $x^d = 1$ in finite groups. **97e:20041**
Cohen, Arjeh Marcel (*with* Wales, David B.) Finite subgroups of $F_4(\mathbf{C})$ and $E_6(\mathbf{C})$. (English summary) **97k:20078**
Corrádi, Keresztély (*with* Horváth, Erzsébet) Steps towards an elementary proof of Frobenius' theorem. (English summary) **97h:20038**
Del Fra, Alberto *see* **Baumeister, Barbara; et al., 97k:51007**
Dimakis, Aristophanes *see* **Bresser, Klaus; et al., 97e:58015**
Horváth, Erzsébet *see* **Corrádi, Keresztély, 97h:20038**
Mason, Geoffrey The quantum double of a finite group and its role in conformal field theory. **97a:11067**
Meixner, Thomas *see* **Baumeister, Barbara; et al., 97k:51007**
Müller-Hoissen, Folkert *see* **Bresser, Klaus; et al., 97e:58015**
Pasini, Antonio *see* **Baumeister, Barbara; et al., 97k:51007**
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Sitarz, Andrzej *see* **Bresser, Klaus; et al., 97e:58015**
Wales, David B. *see* **Cohen, Arjeh Marcel, 97k:20078**
Zelenyuk, E. G. Finite groups in $\beta\mathbf{N}$ are trivial. (Russian) **97j:22004**

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

Dicks, Warren (*with* Ventura Capell, Enric) ★ The group fixed by a family of injective endomorphisms of a free group. (English summary) **97h:20030**
Gaglione, Anthony M. (*with* Spellman, Dennis) Parametric words and models of the elementary theory of non-abelian free groups. (English summary) **97a:20042**
— (*with* Spellman, Dennis) More model theory of free groups. (English summary) **97a:20041**
Jiang, Renfang Bounded automorphisms of surfaces. (English summary) **97b:20027**
Kramer, Peter Free groups for non-commutative systems. (English summary) (*see* **97d:00023**)
Los, Jérôme E. On the conjugacy problem for automorphisms of free groups. **97h:20031**
Peluso, Ada On subgroups of residually nilpotent metabelian groups. **97h:20032**

Rips, Eliyahu On a double of a free group. (English summary) **97k:20043**
Rosset, Shmuel Finite index and finite codimension. (English summary) **97a:20043**
Sénizergues, Géraud On the rational subsets of the free group. (English summary) **97m:20035**
Spellman, Dennis *see* **Gaglione, Anthony M., 97a:20041** *and* **97a:20042**
Stallings, John R. Problems about free quotients of groups. (English summary) **97b:20028**
Storozhev, A. Verbal subgroups of absolutely free groups of different ranks. **97f:20027**
Tamburini Bellani, Maria Chiara (*with* Wilson, John S.) On the (2, 3)-generation of automorphism groups of free groups. **97g:20025**
Tardos, Gábor Towards the Hanna Neumann conjecture using Dicks' method. (English summary) **97b:20029**
Ventura Capell, Enric *see* **Dicks, Warren, 97h:20030**
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Alperin, Roger C. (*with* Procesi, Claudio) Some representations of groups of automorphisms of a free group. (English summary) **97b:20040**
Bennett, Curtis D. Explicit free subgroups of Aut(R, ≤). (English summary) **97g:06020**
Djoković, Dragomir Ž. (*with* Platonov, V. P.) Low-dimensional representations of Aut(F_2). (English summary) **97b:20052**
Gitik, Rita (*with* Rips, Eliyahu) On separability properties of groups. (English summary) **97e:20059**
de la Harpe, Pierre Operator algebras, free groups and other groups. **97m:46092**
Holt, Derek F. (*with* Rees, Sarah) Free quotients of finitely presented groups. (English summary) **97m:20059**
Kramer, Peter Geometry of automorphisms for free groups. (English summary) **97c:20054**
Krstić, Sava (*with* McCool, James) Free quotients of $SL_2(R[x])$. (English summary) **97g:20055**
Macpherson, Dugald Sharply multiply homogeneous permutation groups, and rational scale types. (English summary) **97g:20003**
McCool, James *see* **Krstić, Sava, 97g:20055**
Peluso, Ada Finite-rank free metabelian subgroups of finitely presented metabelian groups. (English summary) **97b:20046**
Pensavalle, Carlo (*with* Steger, Tim) Tensor products with anisotropic principal series representations of free groups. (English summary) **97k:22007**
Platonov, V. P. *see* **Djoković, Dragomir Ž., 97b:20052**
Procesi, Claudio *see* **Alperin, Roger C., 97b:20040**
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Rips, Eliyahu *see* **Gitik, Rita, 97e:20059**
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Zimmermann, Bruno Finite groups of outer automorphisms of free groups. **97i:20044**

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

Aab, Michael (*with* Rosenberger, Gerhard) Subgroup separable free products with cyclic amalgamation. (English summary) **97g:20026**
Allenby, R. B. J. T. Polygonal products of polycyclic by finite groups. (English summary) **97i:20028**
Billig, Yu. V. (*with* Pianzola, Arturo) Free groups of Lie type. (English summary) **97j:20027**
Delzant, Thomas Décomposition d'un groupe en produit libre ou somme amalgamée. [Decomposition of a group into a free product or an amalgamated sum] **97d:20027**
Farbman, S. Peter The unique product property of groups and their amalgamated free products. (English summary) **97b:20030**
Fenn, Roger (*with* Rourke, Colin) Klyachko's methods and the solution of equations over torsion-free groups. (English summary) **97k:20044**
Khramtsov, D. G. Decidability of the conjugacy problem for finite subgroups of automorphism groups of free groups. (Russian. Russian summary) **97i:20029**
Kim, Goansu (*with* Tang, Francis C. Y.) Conjugacy separability of HNN-extensions of abelian groups. **97h:20033**
— (*with* Mccarron, James; Tang, Francis C. Y.) On generalised free products of conjugacy separable groups. (English summary) **97a:20044**
Kuhn, Maria Gabriella (*with* Steger, Tim) More irreducible boundary representations of free groups. **97j:20028**
Lempken, Wolfgang (*with* Parker, Christopher; Rowley, Peter) (S_3, S_6)-amalgams. I. **97f:20029**
— (*with* Parker, Christopher; Rowley, Peter) (S_3, S_6)-amalgams. II, III. **97f:20030**
Mccarron, James *see* **Kim, Goansu; et al., 97a:20044**
Meier, John The geometry of PSL(2, Z[ω]) automorphisms. (English summary) **97b:20031**
Müller, Thomas Subgroup growth of free products. **97f:20031**
Niblo, G. A. Finding splittings of groups and 3-manifolds. (English summary) **97a:20045**
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— *see also* **Lempken, Wolfgang; et al., 97f:20029** *and* **97f:20030**
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Raptis, E. (*with* Varsos, D.) On the subgroup separability of the fundamental group of a finite graph of groups. **97e:20035**
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Steger, Tim *see* **Kuhn, Maria Gabriella, 97j:20028**
Tang, Francis C. Y. *see* **Kim, Goansu; et al., 97a:20044** *and* **97h:20033**
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— *see also* **Ribes, Luis, 97a:20046**

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Azarian, Mohammad K. On the near Frattini subgroup. (English summary) **97c:20043**
Cangül, I. N. The group structure of Hecke groups $H(\lambda_q)$. (English and Turkish summaries) **97c:20074**
Doniz, David Residual properties of free products of infinitely many nilpotent groups amalgamating cycles. (English summary) **97b:20036**
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Kapovich, Ilya A non-quasiconvex subgroup of a hyperbolic group with an exotic limit set. (English summary) **97g:20039**
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Lubotzky, Alexander Free quotients and the first Betti number of some hyperbolic manifolds. (English summary) **97d:57016**
Rips, Eliyahu *see* **Gitik, Rita, 97e:20059**
Rosenberger, Gerhard (*with* Sasse, S. L.) Residual properties of HNN-extensions with cyclic associated subgroups. (English summary) **97a:20050**
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Tang, Francis C. Y. *see* **Kim, Goansu, 97i:20031**
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Varsos, D. The residual nilpotence of the fundamental group of certain graphs of groups. **97i:20048**
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20E07 Subgroup theorems

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Dekimpe, Karel A note on the torsion elements in the centralizer of a finite index subgroup. **97i:20030**
Heath, Philip R. (*with* Nickolas, Peter) On a conjecture of Higgins. (English summary) **97f:20032**
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Li, Xian Hua (*with* Wang, Dian-jun) Some finite nonsolvable groups characterized by their solvable subgroups. (English summary) **97f:20033**
Lubotzky, Alexander (*with* Pyber, László; Shalev, Aner) Discrete groups of slow subgroup growth. (English summary) **97m:20036**
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Stroth, G. Isomorphic subgroups. **97f:20034**
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Xu, Maoqian Groups whose proper subgroups are finite-by-nilpotent. **97e:20038**

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Farbman, S. Peter The unique product property of groups and their amalgamated free products. (English summary) **97b:20030**
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20E08 Groups acting on trees

Bass, Hyman (*with* Jiang, Renfang) Automorphism groups of tree actions and of graphs of groups. (English summary) **97f:20035**
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Holton, Charles (*with* Zamboni, Luca Q.) Exotic actions on trees. (English summary) **97k:20046**
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Khramtsov, D. G. Decidability of the conjugacy problem for finite subgroups of automorphism groups of free groups. (Russian. Russian summary) **97i:20029**
Krstić, Sava (*with* McCool, James) Free quotients of $SL_2(R[x])$. (English summary) **97g:20055**
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Lebeau, Édouard Applications harmoniques entre graphes finis et un théorème de superrigidité. (English and French summaries) [Harmonic mappings between finite graphs and a super-rigidity theorem] **97m:58054**
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Ramagge, Jacqui (*with* Robertson, A. Guyan) Factors from trees. (English summary) **97i:46108**
Rips, Eliyahu Cyclic splittings of finitely presented groups and the canonical JSJ-decomposition. **97i:20047**
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Sageev, Michah Ends of group pairs and non-positively curved cube complexes. (English summary) **97a:20062**
Sela, Z. The Nielsen-Thurston classification and automorphisms of a free group. I. **97f:20047**
Tavgen', O. I. *see* **Zalesskiĭ, P. A., 97b:20032**
Varsos, D. The residual nilpotence of the fundamental group of certain graphs of groups. **97i:20048**
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20E10 Quasivarieties and varieties of groups

Ali, Zafar (*with* Majeed, Abdul) On the laws of metabelian pointed-groups. **97a:20047**
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Gupta, Chander Kanta (*with* Timoshenko, E. I.) Primitivity in the free groups of the variety $\mathfrak{A}_m\mathfrak{A}_n$. (English summary) **97d:20028**
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Kayvanfar, S. *see* **Moghaddam, Mohammad Reza R., 97k:20047**
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Rahman, Mohammad Shamsur (*with* Nurual Huda, MD.) A theorem on varieties of groups. (English summary)
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MacHenry, Trueman *see* **Longobardi, Patrizia; et al., 97a:20055**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 97a:20055**
Wiegold, James *see* **Longobardi, Patrizia; et al., 97a:20055**

20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Bryce, R. A. (*with* Cossey, John) The series of norms in a soluble p-group. **97h:20035**
Caranti, A. (*with* Mattarei, S.; Newman, M. F.; Scoppola, Carlo M.) Thin groups of prime-power order and thin Lie algebras. **97h:20036**
Cirino Groccia, Maria Cristina (*with* Musella, Carmela) Groups with many complemented subgroups. (English and Italian summaries)
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Franciosi, Silvana (*with* de Giovanni, Francesco) Groups with restrictions on infinite subnormal subgroups. (English summary) **97e:20039**
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de Giovanni, Francesco *see* **Franciosi, Silvana, 97e:20039**
Gleason, Andrew M. On the maps implicit in the Jordan-Hölder theorem. **97m:20037**
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Kamornikov, S. F. (*with* Shemetkov, L. A.) On coradicals of subnormal subgroups. (Russian. Russian summary) **97e:20040**
Kurdachenko, Leonid A. *see* **Heineken, Hermann, 97a:20048**
Lubotzky, Alexander Subgroup growth. **97k:20048**
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Vogt, Frank² Subgroup lattices of finite abelian groups: structure and cardinality. **97b:20034**
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20E18 Limits, profinite groups

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— (*with* Shalev, Aner) Simple groups, maximal subgroups, and probabilistic aspects of profinite groups. (English summary) **97m:20038**
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Items with secondary classifications in 20E18

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Fried, Michael D. Introduction to modular towers: generalizing dihedral group–modular curve connections. (English summary) **97a:11070**
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Martínez López, Consuelo Power subgroups of pro-(finite soluble) groups. (English summary) **97e:20025**
Newman, M. F. (*with* Sauerbier, Gabriele; Wisliceny, J.) Groups of prime-power order with a small number of relations. **97d:20016**
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Scheiderer, Claus Farrell cohomology and Brown theorems for profinite groups. (English summary) **97j:20050**
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20E22 Extensions, wreath products, and other compositions [see also 20J05]

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Inassaridze, Niko Finiteness of a non-abelian tensor product of groups. (English summary) **97f:20036**
Kuz'min, Yu. V. Dimension subgroups of extensions with an abelian kernel. (Russian. Russian summary) **97b:20035**
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Choi, Eun Mi On group extensions and representations. (English summary)
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Liedahl, Steven K-admissibility of wreath products of cyclic p-groups. (English summary) **97j:11059**
Mihalik, Michael L. Semistability at infinity, simple connectivity at infinity and normal subgroups. (English summary) **97j:20035**
Otero-Espinar, Maria Victoria *see* **Bass, Hyman; et al., 97k:58058**
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20E25 Local properties

Armeanu, Ion About ambivalent groups. (English summary) **97m:20039**
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Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Locally (soluble-by-finite) groups with all proper insoluble subgroups of finite rank. (English summary) **97m:20041**
Evans, Martin J. *see* **Dixon, Martyn R.; et al., 97m:20041**
Johnson, F. E. A. Finite coverings and surface fibrations. (English summary) **97m:57002**
Kurdachenko, Leonid A. (*with* Smith, Howard) Groups with the maximal condition on nonsubnormal subgroups. (Italian summary) **97e:20056**
Parker, Christopher (*with* Rowley, Peter) On the non-commuting case for $(S_3, L_3(2))$-amalgams. **97k:20045**
Rowley, Peter *see* **Parker, Christopher, 97k:20045**

Smith, Howard *see* **Kurdachenko, Leonid A., 97e:20056** *and* **Dixon, Martyn R.; et al., 97m:20041**

20E26 Residual properties and generalizations

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— *see also* **Allenby, R. B. J. T., 97a:20049**
Kim, Goansu (*with* Tang, Francis C. Y.) A criterion for the conjugacy separability of amalgamated free products of conjugacy separable groups. (English summary) **97i:20031**
Rosenberger, Gerhard (*with* Sasse, S. L.) Residual properties of HNN-extensions with cyclic associated subgroups. (English summary) **97a:20050**
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Segal, Dan A footnote on residually finite groups. (English summary) **97b:20037**
Tang, Francis C. Y. *see* **Kim, Goansu, 97i:20031**
Tavgen′, O. I. *see* **Zalesskiĭ, P. A.**
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Items with secondary classifications in 20E26

Conduché, Daniel Question de Whitehead et modules précroisés. (English and French summaries) [The Whitehead problem and precrossed modules] **97i:57003**
Gaglione, Anthony M. (*with* Spellman, Dennis) Parametric words and models of the elementary theory of non-abelian free groups. (English summary) **97a:20042**
— (*with* Spellman, Dennis) More model theory of free groups. (English summary) **97a:20041**
Gitik, Rita (*with* Rips, Eliyahu) On separability properties of groups. (English summary) **97e:20059**
Kim, Goansu (*with* Tang, Francis C. Y.) Conjugacy separability of HNN-extensions of abelian groups. **97h:20033**
— (*with* Mccarron, James; Tang, Francis C. Y.) On generalised free products of conjugacy separable groups. (English summary) **97a:20044**
Lubotzky, Alexander Subgroup growth. **97k:20048**
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Peluso, Ada On subgroups of residually nilpotent metabelian groups. **97h:20032**
Raptis, E. (*with* Varsos, D.) On the subgroup separability of the fundamental group of a finite graph of groups. **97e:20035**
Ribes, Luis (*with* Zalesskiĭ, P. A.) Conjugacy separability of amalgamated free products of groups. **97a:20046**
Rips, Eliyahu *see* **Gitik, Rita, 97e:20059**
Segal, Dan Variations on polynomial subgroup growth. (English summary) **97g:20027**
Smith, Howard (*with* Wiegold, James) Locally graded groups with all subgroups normal-by-finite. (English summary) **97a:20067**
Spellman, Dennis *see* **Gaglione, Anthony M., 97a:20041** *and* **97a:20042**
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Varsos, D. The residual nilpotence of the fundamental group of certain graphs of groups. **97i:20048**
— *see also* **Raptis, E., 97e:20035**
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Zalesskiĭ, P. A. (*with* Tavgen′, O. I.) Closure of orbits and residual finiteness with respect to the conjugacy of free amalgamated products. (Russian. Russian summary) **97b:20032**
— *see also* **Ribes, Luis, 97a:20046**

20E28 Maximal subgroups

Azarian, Mohammad K. On the near Frattini subgroup. (English summary) **97e:20043**
Bian, Ping Xi (*with* Wen, Xi Jiu; Wang, Pin Chao) Some necessary and sufficient conditions for a group to be solvable. (Chinese. English and Chinese summaries) **97h:20037**
Kamornikov, S. F. (*with* Sel′kin, M. V.) On the influence of maximal subgroups of prime power index on the structure of a finite group. (Russian) **97b:20038**
Pervin, Edward Geometric representations of the maximal subgroups of the Gosset group. (English summary) **97b:20039**
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Wang, Pin Chao *see* **Bian, Ping Xi; et al., 97h:20037**
Wang, Yanming Maximal subgroups of finite groups. (English summary) **97f:20037**
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Beidleman, James C. (*with* Smith, Howard) On maximal subgroups of infinite groups. **97a:20065**
Bhattacharyya, Ajay Some characterisations of finite π-solvable and p-solvable groups with the help of primitive group. **97f:20021**
— Some results on finite nilpotent group via theta pairs and index complex of a maximal subgroup. (English summary) **97e:20028**
Kim, Yang Kok Groups preserving the cardinality of subsets product under permutations. (English summary) **97g:20043**
Klyatskaya, L. M. Nonabelian groups with complemented pure subgroups. (Russian) **97k:20067**
Mann, Avinoam (*with* Shalev, Aner) Simple groups, maximal subgroups, and probabilistic aspects of profinite groups. (English summary) **97m:20038**
Saxl, Jan Finite simple groups and permutation groups. (English summary) **97a:20002**
Shalev, Aner *see* **Mann, Avinoam, 97m:20038**
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Wang, Dian-jun A characterization of $L_2(q)$. (English summary) **97g:20022**
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— *see also* **Ballester-Bolinches, A., 97g:20023**

20E32 Simple groups [see also 20D05]

Belyaev, V. V. Locally finite simple groups from the standpoint of the classification of finite simple groups. (English summary) (*see* **97c:00034**)
Martínez López, Consuelo (*with* Zelmanov, Efim) Products of powers in finite simple groups. (English summary) **97k:20050**
Obraztsov, V. N. Embedding into groups with well-described lattices of subgroups. (English summary) **97k:20051**
Saxl, Jan (*with* Shelah, Saharon; Thomas, Simon R.) Infinite products of finite simple groups. (English summary) **97j:20031**
Shelah, Saharon *see* **Saxl, Jan; et al., 97j:20031**
Thomas, Simon R. *see* **Saxl, Jan; et al., 97j:20031**
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Cameron, Peter J. Permutation groups. **97e:20002**
Lal, Ramji Some problems on Dedekind-type groups. **97c:20037**
Liebeck, Martin W. (*with* Shalev, Aner) Classical groups, probabilistic methods, and the (2, 3)-generation problem. (English summary) **97e:20106a**
— (*with* Praeger, Cheryl E.; Saxl, Jan) On factorizations of almost simple groups. **97i:20026**
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Praeger, Cheryl E. *see* **Liebeck, Martin W.; et al., 97i:20026**
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Shalev, Aner *see* **Liebeck, Martin W., 97e:20106a**

20E34 General structure theorems

Corrádi, Keresztély (*with* Horváth, Erzsébet) Steps towards an elementary proof of Frobenius' theorem. (English summary) **97h:20038**
Horváth, Erzsébet *see* **Corrádi, Keresztély, 97h:20038**
Kuzennyĭ, N. F. (*with* Semko, N. N.) The structure of separately Dedekind groups. (Ukrainian. English and Ukrainian summaries) **97k:20052**
Li, Xian Hua 2-factor index groups. (Chinese. English and Chinese summaries) **97e:20046**
Semko, N. N. *see* **Kuzennyĭ, N. F., 97k:20052**

Items with secondary classifications in 20E34

Lal, Ramji Transversals in groups. **97e:20099**
Li, Xian Hua (*with* Wang, Dian-jun) Some finite nonsolvable groups characterized by their solvable subgroups. (English summary) **97f:20033**
Stellmacher, Bernd A characteristic subgroup of Σ_4-free groups. (English summary) **97d:20018**
Wang, Dian-jun *see* **Li, Xian Hua, 97f:20033**

20E36 General theorems concerning automorphisms of groups

Alperin, Roger C. (*with* Procesi, Claudio) Some representations of groups of automorphisms of a free group. (English summary) **97b:20040**
Bagiński, C. (*with* Malinowska, I.) On groups of order p^n with automorphisms of order p^{n-2}. **97i:20033**
Franciosi, Silvana (*with* de Giovanni, Francesco; Heineken, Hermann) On automorphisms fixing non-normal subgroups of groups. **97a:20051**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 97a:20051**
Heineken, Hermann *see* **Franciosi, Silvana; et al., 97a:20051**
Jabara, Enrico Groups with 4-splitting automorphisms. (Italian. English summary) **97a:20052**
Malinowska, I. *see* **Bagiński, C., 97i:20033**
Procesi, Claudio *see* **Alperin, Roger C., 97b:20040**

Items with secondary classifications in 20E36

Huang, Ping An Some principles concerning complete groups. (Chinese. English and Chinese summaries)
Jiang, Renfang Bounded automorphisms of surfaces. (English summary) **97b:20027**

20E42 Groups with a BN-pair; buildings [see also 51E24]

Rohlfs, Jürgen (*with* Springer, Tonny Albert) Applications of buildings. **97b:20041**
Schwartz, Anne (*with* Shemanske, Thomas R.) Maximal orders in central simple algebras and Bruhat-Tits buildings. (English summary) **97h:20039**
Shemanske, Thomas R. *see* **Schwartz, Anne, 97h:20039**
Springer, Tonny Albert *see* **Rohlfs, Jürgen, 97b:20041**

Items with secondary classifications in 20E42

Fon-Der-Flaass, D. G. A combinatorial construction for twin trees. (English summary) **97c:05047**

Haboush, William J. Algebraic representations of reductive groups over local fields. **97f:20057**
Kasikova, Anna (*with* Shult, Ernest E.) Chamber systems which are not geometric. (English summary) **97f:51020**
Kwon, Sae Ran On the partition of unipotent radicals of parabolic subgroups in Chevalley groups. (English summary) **97m:17012**
Liu, Shao Ping A class of maximal solvable subgroups of the generalized simple group ${}_2D_n$ of Lie type. (Chinese. English and Chinese summaries) **97d:20062**
Mozes, Shahar Actions of Cartan subgroups. (English summary) **97b:22022**
Pasini, Antonio On thin chamber systems. (English summary) **97k:51008**
Scharlau, Rudolf Buildings. **97h:51018**
Shult, Ernest E. *see* **Kasikova, Anna**, **97f:51020**

20E99 None of the above, but in this section

Clifford, Andrew (*with* Goldstein, R. Z.) Tesselations of S^2 and equations over torsion-free groups. (English summary) **97b:20042**
Goldstein, R. Z. *see* **Clifford, Andrew**, **97b:20042**
Walter, Vonn A class of groups rich in finite quotients. **97j:20032**
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Bennett, Curtis D. Twin trees and λ_Λ-gons. (English summary) **97h:51009**
Kuzennyĭ, N. F. (*with* Semko, N. N.) The structure of separately Dedekind groups. (Ukrainian. English and Ukrainian summaries) **97k:20052**
Semko, N. N. *see* **Kuzennyĭ, N. F.**, **97k:20052**

20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

Ashiq, M. *see* **Mushtaq, Q.**, **97i:20038**
Baik, Y. G. (*with* Pride, S. J.) On the efficiency of Coxeter groups. (English summary) **97h:20040**
Bludov, V. V. Thread bases in groups. (Russian. Russian summary) **97b:20043**
Bryant, Roger M. (*with* Kovács, L. G.; Robinson, Geoffrey R.) Transitive permutation groups and irreducible linear groups. **97h:20041**
Campbell, Colin M. (*with* Gill, David M.) On the infiniteness of the Fibonacci group $F(5,7)$. (English summary) **97g:20028**
Edjvet, Martin (*with* Thomas, Richard M.) The groups $(l,m|n,k)$. (English summary) **97i:20034**
Fine, Benjamin (*with* Levin, Frank; Roehl, Frank; Rosenberger, Gerhard) The generalized tetrahedron groups. (English summary) **97g:20029**
— (*with* Rosenberger, Gerhard) A note on extended deficiency and groups admitting essential representations. (English summary) **97i:20035**
Gill, David M. *see* **Campbell, Colin M.**, **97g:20028**
Goldstein, R. Z. Foldings and monomorphisms. (English summary) **97a:20053**
Harlander, J. Closing the relation gap by direct product stabilization. (English summary) **97i:20036**
Humphries, Stephen P. Cogrowth of groups and the Dedekind-Frobenius group determinant. **97i:20037**
Incitti, Roberto An example of limit space of a finitely generated group in the sense of Gromov. (English summary) **97d:20029**
Jabbar, Abdul Symmetric presentations: $U_3(5)$.
Kilgour, C. W. (*with* Pride, S. J.) Cockcroft presentations. (English summary) **97b:20044**
Kovács, L. G. *see* **Bryant, Roger M.; et al.**, **97h:20041**
Le Chenadec, Philippe A survey of symmetrized and complete group presentations. (English summary) **97d:20030**
Levin, Frank *see* **Fine, Benjamin; et al.**, **97g:20029**
Mamaghani, M. J. Rewriting systems and groups. (English summary) **97k:20053**
Mushtaq, Q. (*with* Shaheen, F.) Finite presentation of alternating groups. (English summary) **97e:20047**
— (*with* Ashiq, M.) Alternating or symmetric groups as quotients of $G^{5,5,60}$. (English summary) **97i:20038**
Norton, Simon P. Free transposition groups. (English summary) **97c:20044**
Peifer, David An introduction to combinatorial group theory and the word problem. **97k:20054**
Pride, S. J. *see* **Kilgour, C. W.**, **97b:20044** *and* **Baik, Y. G.**, **97h:20040**
Puusemp, Peeter A characterization of the semidirect product of cyclic groups by its endomorphism semigroup. (English and Estonian summaries) **97i:20039**
Robinson, Geoffrey R. *see* **Bryant, Roger M.; et al.**, **97h:20041**
Roehl, Frank *see* **Fine, Benjamin; et al.**, **97g:20029**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al.**, **97g:20029** *and* **97i:20035**
Sanchini, Paolo (*with* Tamburini Bellani, Maria Chiara) Constructive (2, 3)-generation: a permutational approach. (English summary) **97i:20040**
Semenov, Yu. S. On the commutator groups of irreducible C-groups. (Russian. Russian summary) **97e:20048**
Shaheen, F. *see* **Mushtaq, Q.**, **97e:20047**
Smith, Geoff C. Proving another group infinite. **97e:20049**
Stille, Michael Euler characteristics for generalized tetrahedron groups. (English summary) **97b:20045**
Tamburini Bellani, Maria Chiara *see* **Sanchini, Paolo**, **97i:20040**
Thomas, Richard M. *see* **Edjvet, Martin**, **97i:20034**
Vatansever, Bilal New efficient presentations for PSL(2, 5) and SL(2, 5); the structure of the groups $G(5,m)$ and $G(m,n,r)$. **97c:20045**
Wilson, John S. Soluble groups of deficiency 1. **97c:20046**

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Adyan, S. I. (*with* Lysënok, I. G.; Mennicke, Jens L.) Defining relations and the algebraic structure of the group SL_2 over integral Hamilton quaternions. **97k:20077**
Coelho, Sônia P. (*with* Jespers, Eric; Polcino Milies, César) Automorphisms of group algebras of some metacyclic groups. (English summary) **97h:16040**
Curtis, R. T. (*with* Hasan, Z.) Symmetric representation of the elements of the Janko group J_1. (English summary) **97m:20024**
Dalla Volta, Francesca (*with* Lucchini, Andrea) Minimal number of generators and composition length of socle in finite groups. **97e:20031**
Deheuvels, Patrick The structure group for the associativity identity. (English summary) **97d:55033**
Di Martino, Lino (*with* Vavilov, N. A.) (2, 3)-generation of $SL(n,q)$. II. Cases $n \geq 8$. **97e:20067**
Durnev, V. G. Investigation of algorithmic problems for free semigroups and groups. (Russian) **97e:20050**
Earnest, A. G. *see* **Ishibashi, Hiroyuki**, **97d:20061**
Freden, Eric M. Negatively curved groups and the convergence property. II. Transitivity in negatively curved groups. (English summary) **97f:20044**
Gaglione, Anthony M. (*with* Spellman, Dennis) Parametric words and models of the elementary theory of non-abelian free groups. (English summary) **97a:20042**
— (*with* Spellman, Dennis) More model theory of free groups. (English summary) **97a:20041**
Ganief, Shahiem (*with* Moori, Jamshid) (p,q,r)-generations of the smallest Conway group Co_3. (English summary) **97k:20029**
— (*with* Moori, Jamshid) (p,q,r)-generations and nX-complementary generations of the sporadic groups HS and McL. (English summary) **97k:20030**
Gersten, S. M. Preservation and distortion of area in finitely presented groups. (English summary) **97k:57002**
Hasan, Z. *see* **Curtis, R. T.**, **97m:20024**
Heusener, Michael Representations of palindromically presented groups onto finite subgroups of $SO_3(\mathbf{R})$. (English summary) **97a:20064**
Ishibashi, Hiroyuki (*with* Earnest, A. G.) Addendum: "Two-element generation of orthogonal groups over finite fields" [J. Algebra **165** (1994), no. 1, 164–171; MR 95b:20069]. **97d:20061**
Iskovskikh, V. A. (*with* Tregub, S. L.) Relations in the two-dimensional Cremona group over a nonclosed field. (Russian) **97h:14025**
Jespers, Eric *see* **Coelho, Sônia P.; et al.**, **97h:16040**
Kappe, Luise-Charlotte (*with* Tomkinson, M. J.) Some conditions implying that a group is abelian. (English summary) **97k:20056**
Kim, Goansu Conjugacy separability of certain polygonal products. (English summary) **97g:20036**
— (*with* Mccarron, James; Tang, Francis C. Y.) On generalised free products of conjugacy separable groups. (English summary) **97a:20044**
Kuz'min, Yu. V. Groups of knotted compact surfaces, and central extensions. (Russian. Russian summary) **97g:20061**
Liebeck, Martin W. (*with* Shalev, Aner) Classical groups, probabilistic methods, and the (2, 3)-generation problem. (English summary) **97e:20106a**
— (*with* Shalev, Aner) Simple groups, probabilistic methods, and a conjecture of Kantor and Lubotzky. (English summary) **97e:20106b**
Lucchini, Andrea *see* **Dalla Volta, Francesca**, **97e:20031**
Lysënok, I. G. Infinite Burnside groups of even period. (Russian. Russian summary) **97j:20037**
— *see also* **Adyan, S. I.; et al.**, **97k:20077**
Mccarron, James *see* **Kim, Goansu; et al.**, **97a:20044**
Mednykh, A. D. *see* **Vesin, A. Yu.**, **97c:57019**
Mennicke, Jens L. *see* **Adyan, S. I.; et al.**, **97k:20077**
Migliorini, F. (*with* Szép, J.) The subsets C_n in finite groups and inverse semigroups. II. (English summary) **97k:20097**
Moori, Jamshid *see* **Ganief, Shahiem**, **97k:20029** *and* **97k:20030**
Nakano, Tetsuo (*with* Tamai, Ken-ichi) On some maximal Galois coverings over affine and projective planes. **97f:14015**
Newman, M. F. (*with* O'Brien, E. A.) Application of computers to questions like those of Burnside. II. (English summary) **97k:20002**
O'Brien, E. A. *see* **Newman, M. F.**, **97k:20002**
Polcino Milies, César *see* **Coelho, Sônia P.; et al.**, **97h:16040**
Prok, I. The Euclidean space has 298 fundamental tilings with marked cubes by 130 space groups. **97a:52043**
Rui, He Bing Left cells in affine Weyl groups of types other than $\tilde{A}_n$ and $\tilde{G}_2$. **97a:20070**
Satarov, Zh. S. Defining relations of classical orthogonal groups over commutative local rings. (Russian) **97d:20059**
— Defining relations of the classical unitary group over the ring of dual numbers. (Russian) **97d:20066**
Shalev, Aner *see* **Liebeck, Martin W.**, **97e:20106a** *and* **97e:20106b**
Spellman, Dennis *see* **Gaglione, Anthony M.**, **97a:20041** *and* **97a:20042**
Szép, J. *see* **Migliorini, F.**, **97k:20097**
Tamai, Ken-ichi *see* **Nakano, Tetsuo**, **97f:14015**
Tamburini Bellani, Maria Chiara (*with* Wilson, John S.) On the (2, 3)-generation of automorphism groups of free groups. **97g:20025**
Tang, Francis C. Y. *see* **Kim, Goansu; et al.**, **97a:20044**
Tomkinson, M. J. *see* **Kappe, Luise-Charlotte**, **97k:20056**
Tregub, S. L. *see* **Iskovskikh, V. A.**, **97h:14025**
Vatansever, Bilal Efficient presentation for $PSL(2,7) \times PSL(2,3^2)$. (English summary) **97k:20028**
Vavilov, N. A. *see* **Di Martino, Lino**, **97e:20067**
Vesin, A. Yu. (*with* Mednykh, A. D.) Hyperbolic volumes of Fibonacci manifolds. (Russian. Russian summary) **97c:57019**
Wilson, John S. Finitely presented soluble groups, Hilbert-Serre dimension, and integer polynomials. (English summary) **97h:20045**
— *see also* **Tamburini Bellani, Maria Chiara**, **97g:20025**

20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

Bridson, M. R. (*with* Gersten, S. M.) The optimal isoperimetric inequality for torus bundles over the circle. **97c:20047**
Gersten, S. M. *see* **Bridson, M. R., 97c:20047**
Johnsgard, Karin Two automatic spanning trees in small cancellation group presentations. (English summary) **97k:20055**
Kapovich, Ilya Small cancellation groups and translation numbers. (English summary) **97h:20042**

Items with secondary classifications in 20F06

Delzant, Thomas Sous-groupes distingués et quotients des groupes hyperboliques. [Distinguished subgroups and quotients of hyperbolic groups] **97d:20041**
Edjvet, Martin (*with* Thomas, Richard M.) The groups $(l, m|n, k)$. (English summary) **97i:20034**
Gersten, S. M. Subgroups of word hyperbolic groups in dimension 2. (English summary) **97e:20058**
Kilgour, C. W. (*with* Pride, S. J.) Cockcroft presentations. (English summary) **97b:20044**
Le Chenadec, Philippe A survey of symmetrized and complete group presentations. (English summary) **97d:20030**
Lysënok, I. G. Infinite Burnside groups of even period. (Russian. Russian summary) **97j:20037**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) Exponential groups. II. Extensions of centralizers and tensor completion of CSA-groups. **97j:20039**
Peifer, David Artin groups of extra-large type are biautomatic. (English summary) **97d:20045**
Pride, S. J. *see* **Kilgour, C. W., 97b:20044**
Remeslennikov, V. N. *see* **Myasnikov, A. G., 97j:20039**
Thomas, Richard M. *see* **Edjvet, Martin, 97i:20034**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]

Durnev, V. G. Investigation of algorithmic problems for free semigroups and groups. (Russian) **97e:20050**
Gilman, Robert H. Formal languages and infinite groups. (English summary) **97a:20054**
Grigorchuk, R. I. Growth functions, rewriting systems and Euler characteristic. (Russian. Russian summary) **97d:20031a**
— Letter to the editors: "Growth functions, rewriting systems and Euler characteristic". (Russian) **97d:20031b**
Incitti, Roberto The Burnside problem for groups of low quadratic growth. (English summary) **97d:20033**
— Regularities on the Cayley graphs of groups of linear growth. (English summary) **97m:20040**
Johnsgard, Karin The conjugacy problem for groups of alternating prime tame links is polynomial-time. (English summary) **97f:20038**
Kapovich, Ilya Detecting quasiconvexity: algorithmic aspects. (English summary) **97e:20051**
Mamagani, M. Dzh. On growth functions of surface groups. (Russian. Russian summary) **97d:20032**
Needham, Roger E. Infinite complete group presentations. (English summary) **97g:20030**
Neumann, Walter D. (*with* Reeves, Lawrence) Regular cocycles and biautomatic structures. **97h:20043**
Reeves, Lawrence *see* **Neumann, Walter D., 97h:20043**

Items with secondary classifications in 20F10

Conner, Gregory R. Central extensions of word hyperbolic groups satisfy a quadratic isoperimetric inequality. **97a:20060**
Johnsgard, Karin Two automatic spanning trees in small cancellation group presentations. (English summary) **97k:20055**
Kapovich, Ilya Small cancellation groups and translation numbers. (English summary) **97h:20042**
Khramtsov, D. G. Decidability of the conjugacy problem for finite subgroups of automorphism groups of free groups. (Russian. Russian summary) **97i:20029**
Kim, Goansu (*with* Tang, Francis C. Y.) A criterion for the conjugacy separability of amalgamated free products of conjugacy separable groups. (English summary) **97i:20031**
Linton, Stephen A. (*with* Shand, D.) Some group-theoretic examples with completion theorem provers. (English summary) **97e:68117**
Mosher, Lee Hyperbolic extensions of groups. **97c:20056**
Peifer, David Artin groups of extra-large type are biautomatic. (English summary) **97d:20045**
— An introduction to combinatorial group theory and the word problem. **97k:20054**
Raptis, E. (*with* Varsos, D.) On the subgroup separability of the fundamental group of a finite graph of groups. **97e:20035**
Sénizergues, Géraud On the rational subsets of the free group. (English summary) **97m:20035**
Shand, D. *see* **Linton, Stephen A., 97e:68117**
Tang, Francis C. Y. *see* **Kim, Goansu, 97i:20031**
Varsos, D. *see* **Raptis, E., 97e:20035**

20F12 Commutator calculus

Hegarty, Peter V. Writing commutators of group commutators as products of cubes. (English summary) **97g:20031**
Kappe, Luise-Charlotte (*with* Tomkinson, M. J.) Some conditions implying that a group is abelian. (English summary) **97k:20056**
Szabó, Sándor Groups whose all commutators do not form a subgroup. (English summary)
Tomkinson, M. J. *see* **Kappe, Luise-Charlotte, 97k:20056**

Items with secondary classifications in 20F12

Mashayekhy, B. *see* **Moghaddam, Mohammad Reza R., 97k:20049**
Moghaddam, Mohammad Reza R. (*with* Mashayekhy, B.) "The Baer-invariant of a semidirect product". (English summary) **97k:20049**

20F14 Derived series, central series, and generalizations

Antonov, Vladimir A. Lattices of centralizers in groups. (English summary) (*see* **97c:00034**)
Asar, A. O. (*with* Atlıhan, S.) A property of Meldrum groups. (English and Turkish summaries) **97c:20048**
Atlıhan, S. *see* **Asar, A. O., 97c:20048**
Havas, George (*with* Robertson, Edmund F.) Central factors of deficiency zero groups. (English summary) **97e:20052**
Marconi, Riccardo Products of locally cyclic groups. (Italian. English summary) **97d:20034**
Peluso, Ada Finite-rank free metabelian subgroups of finitely presented metabelian groups. (English summary) **97b:20046**
Robertson, Edmund F. *see* **Havas, George, 97e:20052**

Items with secondary classifications in 20F14

Conduché, Daniel Question de Whitehead et modules précroisés. (English and French summaries) [The Whitehead problem and precrossed modules] **97i:57003**
Gleason, Andrew M. On the maps implicit in the Jordan-Hölder theorem. **97m:20037**
Kayvanfar, S. *see* **Moghaddam, Mohammad Reza R., 97k:20047**
Liu, He Guo Finitely generated solvable groups whose subnormal subgroups have defect at most 2. (Chinese. Chinese summary) **97g:20032**
Lubotzky, Alexander (*with* Pyber, László; Shalev, Aner) Discrete groups of slow subgroup growth. (English summary) **97m:20036**
Moghaddam, Mohammad Reza R. (*with* Kayvanfar, S.) On the generalized capable groups. (English summary) **97k:20047**
Pyber, László *see* **Lubotzky, Alexander; et al., 97m:20036**
Shalev, Aner *see* **Lubotzky, Alexander; et al., 97m:20036**

20F16 Solvable groups, supersolvable groups

Armeanu, Ion Supersolvable Q-groups. (English and Turkish summaries)
Asaad, M. (*with* Li, Shi Rong) On minimal subgroups of finite groups. II. (English summary) **97k:20057**
Bian, Ping Xi (*with* Wang, Pin Chao) Conditions for supersolvability of groups. (Chinese. English and Chinese summaries) **97i:20041**
— *see also* **Wang, Pin Chao; et al., 97g:20033**
Dashkova, O. Yu. Solvable groups of finite nonabelian sectional rank. (Russian. English and Ukrainian summaries) **97h:20044**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Locally (soluble-by-finite) groups with all proper insoluble subgroups of finite rank. (English summary) **97m:20041**
Endimioni, G. A characterization of nilpotent-by-finite groups in the class of finitely generated soluble groups. (English summary) **97m:20042**
Evans, Martin J. *see* **Dixon, Martyn R.; et al., 97m:20041**
Guo, Xiuyun *see* **Wang, Caiyun, 97i:20042**
Jabara, Enrico p-splitting automorphisms and Hughes p-groups. (Italian. English summary) **97k:20058**
Li, Qian Xiu Minimal subgroups and supersolvability. (Chinese. English and Chinese summaries)
Li, Shi Rong *see* **Asaad, M., 97k:20057**
Liu, He Guo Finitely generated solvable groups whose subnormal subgroups have defect at most 2. (Chinese. Chinese summary) **97g:20032**
Lu, Zai Ping *see* **Wang, Pin Chao; et al., 97g:20033**
Navarro, Gabriel Actions and invariant character degrees. II. **97e:20053**
Smith, Howard *see* **Dixon, Martyn R.; et al., 97m:20041**
Wang, Caiyun (*with* Guo, Xiuyun) A Frobenius-type theorem for supersolvable groups. (English summary) **97i:20042**
Wang, Pin Chao (*with* Lu, Zai Ping; Bian, Ping Xi) On the supersolvability of QCLT-groups. (English summary) **97g:20033**
— *see also* **Bian, Ping Xi, 97i:20041**
Wilson, John S. Finitely presented soluble groups, Hilbert-Serre dimension, and integer polynomials. (English summary) **97h:20045**
Zhang, Rong[1] S-seminormality and supersolvability. (Chinese. English and Chinese summaries)
Zhao, Yaoqing On the index complex of a maximal subgroup and the supersolvability of a finite group. (English summary) **97c:20049**

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Bian, Ping Xi (*with* Wen, Xi Jiu; Wang, Pin Chao) Some necessary and sufficient conditions for a group to be solvable. (Chinese. English and Chinese summaries) **97h:20037**
Bridson, M. R. (*with* Gersten, S. M.) The optimal isoperimetric inequality for torus bundles over the circle. **97c:20047**
Dekimpe, Karel (*with* Igodt, Paul) Polynomial structures for iterated central extensions of abelian-by-nilpotent groups. **97d:20043**
Gersten, S. M. *see* **Bridson, M. R., 97c:20047**
Igodt, Paul *see* **Dekimpe, Karel, 97d:20043**
Jabara, Enrico Groups with 4-splitting automorphisms. (Italian. English summary) **97a:20052**
Lioutikova, Ekaterina Tensor completion for a certain class of groups. (English summary) **97e:20042**
Menth, Martin A note on Hall closure of metanilpotent Fitting classes. (English summary) **97f:20039**
Peluso, Ada On subgroups of residually nilpotent metabelian groups. **97h:20032**
Tushev, A. V. Spectra of conjugated ideals in group algebras of abelian groups of finite rank and control theorems. **97j:16041**
Vesanen, Ari Solvable groups and loops. **97a:20115**

Walter, Vonn A class of groups rich in finite quotients. **97j:20032**
Wang, Pin Chao *see* **Bian, Ping Xi; et al., 97h:20037**
Wang, Yanming c-normality of groups and its properties. (English summary) **97b:20020**
Wen, Xi Jiu *see* **Bian, Ping Xi; et al., 97h:20037**
Wilson, John S. Soluble groups of deficiency 1. **97c:20046**

20F17 Formations of groups, Fitting classes [see also 20D10]

Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On finite products of totally permutable groups. (English summary) **97e:20054**
Dixon, Martyn R. ★ Sylow theory, formations and Fitting classes in locally finite groups. **97d:20035**
Hai, Jin Ke Criticality problems of p-local formations. (Chinese. English and Chinese summaries) **97e:20055**
Iranzo, María Jesús (*with* Martínez Pastor, A.; Pérez Monasor, Francisco) An analogue for some Fitting classes to a theorem of Stellmacher. (English summary) **97b:20047**
Martínez Pastor, A. *see* **Iranzo, María Jesús; et al., 97b:20047**
Menth, Martin A note on Hall closure of metanilpotent Fitting classes. (English summary) **97f:20039**
Otal, Javier (*with* Peña, Juan Manuel) Fitting classes and formations of locally soluble CC-groups. (Italian summary) **97k:20059**
Pedraza-Aguilera, M. C. *see* **Ballester-Bolinches, A.; et al., 97e:20054**
Peña, Juan Manuel *see* **Otal, Javier, 97k:20059**
Pérez Monasor, Francisco *see* **Iranzo, María Jesús; et al., 97b:20047**
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Kamornikov, S. F. (*with* Shemetkov, L. A.) On coradicals of subnormal subgroups. (Russian. Russian summary) **97e:20040**
Shemetkov, L. A. *see* **Kamornikov, S. F., 97e:20040**

20F18 Nilpotent groups

Berrick, A. J. (*with* Tan, G. C.) The minimal extension of P-localization on groups. **97b:20048**
Carey, Alan L. (*with* Moran, William; Pearce, C. E. M.) A Kirillov theory for divisible nilpotent groups. **97c:20050**
Han, Sang-Eon *see* **Shon, Kyu-Hyun**
Heineken, Hermann (*with* Nikolova, Daniela) Class two nilpotent capable groups. (English summary) **97m:20043**
Hilton, Peter (*with* Scevenels, Dirk) Calculating the genus of a direct product of certain nilpotent groups. (English summary) **97b:20049**
— (*with* Schuck, Christopher) Non-cancellation phenomena in a class of finitely generated nilpotent groups. (English summary) **97g:20034**
— (*with* Militello, Robert) On almost finitely generated nilpotent groups. (English summary) **97c:20051**
Kim, Pan Soo (*with* Kim, Yang Kok) Notes on groups with finite base. (English summary) **97m:20044**
Kim, Yang Kok *see* **Kim, Pan Soo, 97m:20044**
Liu, He Guo A theorem on nilpotent groups. (Chinese. English and Chinese summaries)
Longobardi, Patrizia (*with* MacHenry, Trueman; Maj, Mercede; Wiegold, James) On absolutely-nilpotent of class k groups. (English and Italian summaries) **97a:20055**
MacHenry, Trueman *see* **Longobardi, Patrizia; et al., 97a:20055**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 97a:20055**
Militello, Robert *see* **Hilton, Peter, 97c:20051**
Moran, William *see* **Carey, Alan L.; et al., 97c:20050**
Nikolova, Daniela *see* **Heineken, Hermann, 97m:20043**
Papadima, Ştefan Finite determinacy phenomena for finitely presented groups. (English summary) **97b:20050**
Pearce, C. E. M. *see* **Carey, Alan L.; et al., 97c:20050**
Poland, John (*with* Rhemtulla, Akbar) The number of conjugacy classes of non-normal subgroups in nilpotent groups. (English summary) **97g:20035**
Rhemtulla, Akbar *see* **Poland, John, 97g:20035**
Roitberg, Joseph Rationally equivalent nilpotent groups and spaces. (English summary) **97c:20052**
Scevenels, Dirk The genus of a direct product of certain nilpotent groups with a finite nilpotent group. **97b:20051**
— *see also* **Hilton, Peter, 97b:20049**
Schuck, Christopher *see* **Hilton, Peter, 97g:20034**
Shon, Kyu-Hyun (*with* Han, Sang-Eon) On the locally nilpotent spaces and (T^*).
Tan, G. C. *see* **Berrick, A. J., 97b:20048**
Wehrfritz, B. A. F. Nilpotent cofinitary groups. **97a:20056**
Wiegold, James *see* **Longobardi, Patrizia; et al., 97a:20055**
Zhang, Shen Yu Some conclusions concerning p^*-groups and p^*-nilpotent groups. (Chinese. English and Chinese summaries)

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Baudisch, Andreas Another stable group. (English summary) **97j:03069**
Bhattacharyya, Ajay Some results on finite nilpotent group via theta pairs and index complex of a maximal subgroup. (English summary) **97e:20028**
Burillo, José Lower bounds of isoperimetric functions for nilpotent groups. (English summary) **97b:20053**
Conner, Gregory R. Central extensions of word hyperbolic groups satisfy a quadratic isoperimetric inequality. **97a:20060**
Darnel, Michael R. (*with* Wojciechowski, Piotr J.) Nearly abelian, nilpotent, and Engel lattice-ordered groups. (English summary) **97d:06023**
Havas, George (*with* Robertson, Edmund F.) Central factors of deficiency zero groups. (English summary) **97e:20052**
Jabara, Enrico p-splitting automorphisms and Hughes p-groups. (Italian. English summary) **97k:20058**
Lin, Wan Presentations of the automorphism groups of free nilpotent groups. **97e:20057**
Lubotzky, Alexander Subgroup growth. **97k:20048**
— *see also* **du Sautoy, Marcus P. F., 97g:11137**
Marciniak, Zbigniew S. (*with* Sehgal, Sudarshan K.) Zassenhaus conjecture and infinite nilpotent groups. (English summary) **97k:16048**
Mashayekhy, B. *see* **Moghaddam, Mohammad Reza R., 97k:20049**
McGibbon, C. A. On the localization genus of a space. **97d:55019**
Menth, Martin A note on Hall closure of metanilpotent Fitting classes. (English summary) **97f:20039**
Moghaddam, Mohammad Reza R. (*with* Mashayekhy, B.) "The Baer-invariant of a semidirect product". (English summary) **97k:20049**
Pillay, Anand The geometry of forking and groups of finite Morley rank. (English summary) **97d:03046**
Pittet, Ch. Isoperimetric inequalities for homogeneous nilpotent groups. (English summary) **97a:20061**
Robertson, Edmund F. *see* **Havas, George, 97e:20052**
du Sautoy, Marcus P. F. (*with* Lubotzky, Alexander) Functional equations and uniformity for local zeta functions of nilpotent groups. (English summary) **97g:11137**
Sehgal, Sudarshan K. *see* **Marciniak, Zbigniew S., 97k:16048**
Wojciechowski, Piotr J. *see* **Darnel, Michael R., 97d:06023**
Xu, Kai Nilpotent subgroups of self equivalences of torsion spaces. (English summary) **97b:55008**

20F19 Generalizations of solvable and nilpotent groups

Amberg, Bernhard (*with* Sysak, Yaroslav P.) Locally soluble products of two subgroups with finite rank. **97c:20053**
— (*with* Sysak, Yaroslav P.) On groups with a locally nilpotent triple factorization. (English summary) **97k:20060**
Celentani, Maria Rosaria (*with* Leone, Antonella) Groups with restrictions on non-quasinormal subgroups. (Italian summary) **97m:20045**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Locally (soluble-by-finite) groups of finite rank. **97f:20040**
Evans, Martin J. *see* **Dixon, Martyn R.; et al., 97f:20040**
Franciosi, Silvana (*with* de Giovanni, Francesco; Kurdachenko, Leonid A.) On groups with many almost normal subgroups. (English summary) **97a:20057**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 97a:20057**
Kim, Goansu Conjugacy separability of certain polygonal products. (English summary) **97g:20036**
Kurdachenko, Leonid A. (*with* Smith, Howard) Groups with the maximal condition on nonsubnormal subgroups. (Italian summary) **97e:20056**
— *see also* **Franciosi, Silvana; et al., 97a:20057**
Kuzennyĭ, N. F. Nonperiodic locally solvable $T(\overline{A})$-groups. (Ukrainian. English and Ukrainian summaries) **97g:20037**
Leone, Antonella *see* **Celentani, Maria Rosaria, 97m:20045**
Raphael, Deborah Commensurability and elementary equivalence of polycyclic groups. (English summary) **97f:20041**
Smith, Howard *see* **Kurdachenko, Leonid A., 97e:20056** *and* **Dixon, Martyn R.; et al., 97f:20040**
Sysak, Yaroslav P. *see* **Amberg, Bernhard, 97c:20053** *and* **97k:20060**
Xu, Maoqian Groups whose proper subgroups are Baer groups. (English summary) **97d:20036**

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Asar, A. O. (*with* Athhan, S.) A property of Meldrum groups. (English and Turkish summaries) **97c:20048**
Athhan, S. *see* **Asar, A. O., 97c:20048**
Dekimpe, Karel (*with* Malfait, Wim) Affine structures on a class of virtually nilpotent groups. (English summary) **97j:57060**
Dixon, Martyn R. (*with* Evans, Martin J.; Smith, Howard) Locally (soluble-by-finite) groups with all proper insoluble subgroups of finite rank. (English summary) **97m:20041**
Evans, Martin J. *see* **Dixon, Martyn R.; et al., 97m:20041**
Franciosi, Silvana (*with* de Giovanni, Francesco) Frattini properties of groups with polycyclic-by-finite conjugacy classes. (Italian summary) **97i:20043**
de Giovanni, Francesco *see* **Franciosi, Silvana, 97i:20043**
Kim, Pan Soo (*with* Kim, Yang Kok) Notes on groups with finite base. (English summary) **97m:20044**
Kim, Yang Kok *see* **Kim, Pan Soo, 97m:20044**
Konyukh, V. S. Imprimitive locally nilpotent linear groups. (Russian. English and Russian summaries) **97f:20055**
Longobardi, Patrizia (*with* Maj, Mercede; Smith, Howard) A finiteness condition on non-nilpotent subgroups. **97e:20043**
Maj, Mercede *see* **Longobardi, Patrizia; et al., 97e:20043**
Malfait, Wim *see* **Dekimpe, Karel, 97j:57060**
Smith, Howard *see* **Longobardi, Patrizia; et al., 97e:20043** *and* **Dixon, Martyn R.; et al., 97m:20041**
Wehrfritz, B. A. F. On "Clifford's theorem" for primitive finitary groups. (English summary) **97m:20061**
Zhang, Zhirang Faithful just infinite modules over hypercentral groups. (English summary) **97a:20011**

20F22 Other classes of groups defined by subgroup chains

Franciosi, Silvana (*with* de Giovanni, Francesco) Groups with many normal-by-finite subgroups. (English summary) **97d:20037**
de Giovanni, Francesco *see* **Franciosi, Silvana, 97d:20037**
Ivko, M. N. (*with* Senashov, V. I.) On a new class of infinite groups. (English and Ukrainian summaries) **97m:20046**
Senashov, V. I. *see* **Ivko, M. N., 97m:20046**

Items with secondary classifications in 20F22

Puglisi, Orazio Maximal unipotent subgroups of finitary linear groups. **97h:20053**

20F24 FC-groups and their generalizations

Franciosi, Silvana (*with* de Giovanni, Francesco) Frattini properties of groups with polycyclic-by-finite conjugacy classes. (Italian summary) **97i:20043**
— (*with* de Giovanni, Francesco; Kurdachenko, Leonid A.) Groups whose proper quotients are FC-groups. **97k:20061**
de Giovanni, Francesco *see* **Franciosi, Silvana**, **97i:20043** *and* **97k:20061**
González Sardinero, Miguel (*with* Otal, Javier) The extension of results due to Gorchakov and Tomkinson from FC-groups and to CC-groups. **97k:20062**
Kurdachenko, Leonid A. (*with* Subbotin, I. Ya.) Groups with restrictions for cocentralizers of elements. **97a:20058**
— *see also* **Franciosi, Silvana; et al.**, **97k:20061**
Longobardi, Patrizia (*with* Maj, Mercede; Mann, Avinoam; Rhemtulla, Akbar) Groups with many nilpotent subgroups. **97f:20042**
Maj, Mercede *see* **Longobardi, Patrizia; et al.**, **97f:20042**
Mann, Avinoam *see* **Longobardi, Patrizia; et al.**, **97f:20042**
Otal, Javier *see* **González Sardinero, Miguel**, **97k:20062**
Rhemtulla, Akbar *see* **Longobardi, Patrizia; et al.**, **97f:20042**
Subbotin, I. Ya. *see* **Kurdachenko, Leonid A.**, **97a:20058**

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Franciosi, Silvana (*with* de Giovanni, Francesco; Kurdachenko, Leonid A.) On groups with many almost normal subgroups. (English summary) **97a:20057**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al.**, **97a:20057**
Ivko, M. N. (*with* Senashov, V. I.) On a new class of infinite groups. (English and Ukrainian summaries) **97m:20046**
Kurdachenko, Leonid A. *see* **Franciosi, Silvana; et al.**, **97a:20057**
Senashov, V. I. *see* **Ivko, M. N.**, **97m:20046**

20F28 Automorphism groups of groups [see also 20E36]

Brandl, Rolf (*with* Verardi, Libero) Groups with anomalous automorphisms. (English summary) **97f:20043**
Bryant, Roger M. (*with* Evans, David M.) The small index property for free groups and relatively free groups. **97m:20047**
Djoković, Dragomir Ž. (*with* Platonov, V. P.) Low-dimensional representations of $\mathrm{Aut}(F_2)$. (English summary) **97b:20052**
Evans, David M. *see* **Bryant, Roger M.**, **97m:20047**
Gupta, Chander Kanta Generating sets of certain automorphism groups. **97h:20046**
Kramer, Peter Geometry of automorphisms for free groups. (English summary) **97c:20054**
Lin, Wan Presentations of the automorphism groups of free nilpotent groups. **97e:20057**
Pettet, Martin R. Finitely generated groups with virtually free automorphism groups. (English summary) **97a:20059**
Platonov, V. P. *see* **Djoković, Dragomir Ž.**, **97b:20052**
Roman'kov, V. A. Automorphism groups of free pro-p-groups of finite ranks ≥ 2 are infinitely generated. (English summary) (*see* **97c:00034**)
Shpilrain, Vladimir Non-commutative determinants and automorphisms of groups. (English summary) **97m:20048**
Verardi, Libero *see* **Brandl, Rolf**, **97f:20043**
Zimmermann, Bruno Finite groups of outer automorphisms of free groups. **97i:20044**

Items with secondary classifications in 20F28

Bagiński, C. (*with* Malinowska, I.) On groups of order p^n with automorphisms of order p^{n-2}. **97i:20033**
Bass, Hyman (*with* Jiang, Renfang) Automorphism groups of tree actions and of graphs of groups. (English summary) **97f:20035**
Baumann, Bernd Classical groups acting on nilpotent groups. **97b:20021**
Dicks, Warren (*with* Ventura Capell, Enric) ★ The group fixed by a family of injective endomorphisms of a free group. (English summary) **97h:20030**
Franciosi, Silvana (*with* de Giovanni, Francesco; Heineken, Hermann) On automorphisms fixing non-normal subgroups of groups. **97a:20051**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al.**, **97a:20051**
Heineken, Hermann *see* **Franciosi, Silvana; et al.**, **97a:20051**
Jiang, Renfang *see* **Bass, Hyman**, **97f:20035**
Kwon, Sae Ran On the partition of unipotent radicals of parabolic subgroups in Chevalley groups. (English summary) **97m:17012**
Los, Jérôme E. On the conjugacy problem for automorphisms of free groups. **97h:20031**
Malinowska, I. *see* **Bagiński, C.**, **97i:20033**
Sela, Z. The Nielsen-Thurston classification and automorphisms of a free group. I. **97f:20047**
Tamburini Bellani, Maria Chiara (*with* Wilson, John S.) On the (2, 3)-generation of automorphism groups of free groups. **97g:20025**
Ventura Capell, Enric *see* **Dicks, Warren**, **97h:20030**
Wilkens, Bettina A note on 2-automorphic 2-groups. **97h:20024**
Wilson, John S. *see* **Tamburini Bellani, Maria Chiara**, **97g:20025**

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20F29 Representations of groups as automorphism groups of algebraic systems

Items with secondary classifications in 20F29

Huang, Qiong Xiang (*with* Meng, Ji Xiang) On the isomorphisms and automorphism groups of circulants. (English summary) **97d:05140**
Laver, Richard Braid group actions on left distributive structures, and well orderings in the braid groups. **97e:20061**
Li, Shi Rong A class of groups of odd order that cannot be automorphism groups of finite groups. (Chinese. English and Chinese summaries) **97j:20025**
Meng, Ji Xiang *see* **Huang, Qiong Xiang**, **97d:05140**
Pavlov, Konstantin Aleksandrovich On the actions of finite groups on Amitsur rings. (Russian. Russian summary) **97d:16042**

20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

Alonso, Juan Manuel Dehn functions and finiteness properties of graph products. (English summary) **97d:20038**
Bogopol'skiĭ, O. V. (*with* Gerasimov, V. N.) Finite subgroups of hyperbolic groups. (Russian. Russian summary) **97c:20055**
Bowers, Philip L. (*with* Ruane, Kim) Boundaries of nonpositively curved groups of the form $G \times \mathbf{Z}^n$. **97d:20039**
Burger, Marc Rigidity properties of group actions on CAT(0)-spaces. **97j:20033**
Burillo, José Lower bounds of isoperimetric functions for nilpotent groups. (English summary) **97b:20053**
Cleary, Sean Groups of piecewise-linear homeomorphisms with irrational slopes. (English summary) **97d:20040**
Conner, Gregory R. Central extensions of word hyperbolic groups satisfy a quadratic isoperimetric inequality. **97a:20060**
Delzant, Thomas Sous-groupes distingués et quotients des groupes hyperboliques. [Distinguished subgroups and quotients of hyperbolic groups] **97d:20041**
— Sur l'anneau d'un groupe hyperbolique. (English and French summaries) [Group rings of hyperbolic groups] **97k:20063**
Elek, Gábor The K-theory of Gromov's translation algebras and the amenability of discrete groups. (English summary) **97j:20034**
Freden, Eric M. Negatively curved groups and the convergence property. II. Transitivity in negatively curved groups. (English summary) **97f:20044**
Gerasimov, V. N. *see* **Bogopol'skiĭ, O. V.**, **97c:20055**
Gersten, S. M. Subgroups of word hyperbolic groups in dimension 2. (English summary) **97e:20058**
Gilman, Robert H. Automatic groups and string rewriting. **97b:20054**
Gitik, Rita (*with* Rips, Eliyahu) On separability properties of groups. (English summary) **97e:20059**
— Nielsen generating sets and quasiconvexity of subgroups. (English summary) **97i:20045**
Hatcher, Allen (*with* Vogtmann, Karen) Isoperimetric inequalities for automorphism groups of free groups. (English summary) **97f:20045**
Johnson, F. E. A. Sur la commensurabilité des groupes poly-surfaces. (English and French summaries) [Infinitely many commensurability classes of poly-surface groups] **97g:20038**
Kapovich, Ilya A non-quasiconvex subgroup of a hyperbolic group with an exotic limit set. (English summary) **97g:20039**
Meier, John When is the graph product of hyperbolic groups hyperbolic? (English summary) **97b:20055**
Mihalik, Michael L. Semistability of Artin and Coxeter groups. (English summary) **97e:20060**
— Semistability at infinity, simple connectivity at infinity and normal subgroups. (English summary) **97j:20035**
— (*with* Tschantz, Steven T.) Tame combings of groups. (English summary) **97m:20049**
Möller, Rögnvaldur G. Accessibility and ends of graphs. (English summary) **97b:20056**
Mosher, Lee Hyperbolic extensions of groups. **97c:20056**
Ol'shanskiĭ, A. Yu. SQ-universality of hyperbolic groups. (Russian. Russian summary) **97b:20057**
Paulin, Frédéric Un groupe hyperbolique est déterminé par son bord. (French summary) [A hyperbolic group is determined by its boundary] **97d:20042**
Pittet, Ch. Isoperimetric inequalities for homogeneous nilpotent groups. (English summary) **97a:20061**
Ranjbar-Motlagh, Alireza The action of groups on hyperbolic spaces. (English summary) **97f:20046**
Reznikov, A. G. Volumes of discrete groups and topological complexity of homology spheres. **97i:20046**
Rips, Eliyahu Cyclic splittings of finitely presented groups and the canonical JSJ-decomposition. **97i:20047**
— *see also* **Gitik, Rita**, **97e:20059**
Ruane, Kim *see* **Bowers, Philip L.**, **97d:20039**
Sageev, Michah Ends of group pairs and non-positively curved cube complexes. (English summary) **97a:20062**
Sela, Z. The Nielsen-Thurston classification and automorphisms of a free group. I. **97f:20047**
Swarup, G. A. On the cut point conjecture. (English summary) **97f:20048**
Tschantz, Steven T. *see* **Mihalik, Michael L.**, **97m:20049**
Vogtmann, Karen *see* **Hatcher, Allen**, **97f:20045**

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Balke, Ludwig (*with* Valverde, Alba) Σ-chamber systems, coloured graphs and orbifolds. (English summary) **97g:57002**
Ballmann, Werner (*with* Buyalo, S. V.) Nonpositively curved metrics on 2-polyhedra. **97c:53063**
Biś, Andrzej Geometrical directions and ends of a manifold, points of accumulation of a direction of a group in the hyperbolic space H^2. (English summary) **97c:57001**
Bourdon, Marc Sur le birapport au bord des CAT(−1)-espaces. (English and French summaries) [On the cross-ratio at the boundary of CAT(−1)-spaces] **97k:58123**
Brady, Thomas Complexes of non-positive curvature and automorphisms of the 4-punctured sphere. **97k:57001**
Buyalo, S. V. *see* **Ballmann, Werner**, **97c:53063**
Cohen, F. R. On combinatorial group theory in homotopy. **97d:55024**

Conder, Marston D. E. Asymmetric combinatorially-regular maps. (English summary) **97h:57006**
Hotchkiss, Philip K. The boundary of a Busemann space. (English summary) **97m:53073**
Kapovich, Ilya Detecting quasiconvexity: algorithmic aspects. (English summary) **97e:20051**
Kenyon, Richard A note on tiling with integer-sided rectangles. (English summary) **97c:52045**
Khovanov, Mikhail Doodle groups. (English summary) **97h:57004**
Lang, Urs Quasigeodesics outside horoballs. (English summary) **97i:53039**
Lárusson, Finnur The Martin boundary action of Gromov hyperbolic covering groups and applications to Hardy classes. **97d:30047**
Meier, John The geometry of PSL(2, $\mathbf{Z}[\omega]$) automorphisms. (English summary) **97b:20031**
Mihalik, Michael L. Compactifying coverings of 3-manifolds. (English summary) **97k:57020**
Neumann, Walter D. (*with* Reeves, Lawrence) Regular cocycles and biautomatic structures. **97h:20043**
Peifer, David An introduction to combinatorial group theory and the word problem. **97k:20054**
Reeves, Lawrence *see* **Neumann, Walter D., 97h:20043**
Roe, John ★ Index theory, coarse geometry, and topology of manifolds. **97h:58155**
Valverde, Alba *see* **Balke, Ludwig, 97g:57002**

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CBMS Regional Conference Series in Mathematics *see* **Roe, John, 97h:58155**

20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx, 22E40]

Dekimpe, Karel (*with* Igodt, Paul) Polynomial structures for iterated central extensions of abelian-by-nilpotent groups. **97d:20043**
Igodt, Paul *see* **Dekimpe, Karel, 97d:20043**
Silver, Daniel S. Nontorus knot groups are hyper-Hopfian. (English summary) **97a:20063**
Varsos, D. The residual nilpotence of the fundamental group of certain graphs of groups. **97i:20048**

Items with secondary classifications in 20F34

Apanasov, B. N. Varieties of discrete representations of hyperbolic 3-lattices. (English summary) **97h:57003**
Arapura, Donu Fundamental groups of smooth projective varieties. (English summary) **97d:32038**
Carlson, James A. (*with* Toledo, Domingo) Quadratic presentations and nilpotent Kähler groups. **97c:32038**
Ihara, Yasutaka (*with* Nakamura, Hiroaki) On universal field of definition of Galois-Teichmüller towers—deformations of maximally degenerate curves and Oda's conjecture. (Japanese) (*see* **97f:11002**)
Khovanov, Mikhail Doodle groups. (English summary) **97h:57004**
Matsumoto, Makoto Galois representations on profinite braid groups on curves. **97h:14043**
McCullough, Darryl ★ 3-manifolds and their mappings. **97j:57020**
Nakamura, Hiroaki *see* **Ihara, Yasutaka, (97f:11002)**
Paoluzzi, Luisa (*with* Zimmermann, Bruno) On a class of hyperbolic 3-manifolds and groups with one defining relation. (English summary) **97e:57014**
Plantiko, Rüdiger The graded Lie algebra of a Kähler group. (English summary) **97h:17030**
Szczepański, Andrzej Outer automorphism groups of Bieberbach groups. (English summary) **97k:57050**
Toledo, Domingo *see* **Carlson, James A., 97c:32038**
Yang, Yi-Hu On the growth of fundamental groups of nonpositive curvature manifolds. (English summary) **97i:53044**
Zimmermann, Bruno Finite groups of outer automorphisms of free groups. **97i:20044**
— *see also* **Paoluzzi, Luisa, 97e:57014**

20F36 Braid groups; Artin groups

Abdulrahim, Mohammad N. A faithfulness criterion for the Gassner representation of the pure braid group. (English summary) **97g:20040**
— Complex specializations of the reduced Gassner representation of the pure braid group. (English summary) **97i:20049**
Cooper, Daryl (*with* Long, Darren) A presentation for the image of Burau(4) $\otimes$ Z_2. **97m:20050**
Dehornoy, Patrick Weak faithfulness properties for the Burau representation. (English summary) **97b:20058**
Fenn, Roger (*with* Rolfsen, Dale P.; Zhu, Jun[1]) Centralisers in the braid group and singular braid monoid. (English summary) **97h:20047**
— (*with* Rimányi, Richárd; Rourke, Colin) The braid-permutation group. (English summary) **97g:20041**
Formanek, Edward Braid group representations of low degree. (English summary) **97g:20042**
Laver, Richard Braid group actions on left distributive structures, and well orderings in the braid groups. **97e:20061**
Leung, Ka Hin (*with* Wong, Yan Loi) On quotients of braid groups. (English summary) **97d:20044**
Long, Darren *see* **Cooper, Daryl, 97m:20050**
Lüdde, Mirko Generalised Magnus modules over the braid group. **97h:20048**
McKinney, Laura (*with* Meier, John; Schnare, Katharine) Abelian quotients of Artin groups. (English summary) **97c:20057**
Meier, John Geometric invariants for Artin groups. (English summary) **97h:20049**
— *see also* **McKinney, Laura; et al., 97c:20057**
Meng, Xiang Jun *see* **Xue, Kang**
Peifer, David Artin groups of extra-large type are biautomatic. (English summary) **97d:20045**
Rimányi, Richárd *see* **Fenn, Roger; et al., 97g:20041**
Rolfsen, Dale P. *see* **Fenn, Roger; et al., 97h:20047**
Rourke, Colin *see* **Fenn, Roger; et al., 97g:20041**
Savushkina, A. G. On the commutator subgroup of the braid group. (Russian. Russian summary) **97c:20058**
Schnare, Katharine *see* **McKinney, Laura; et al., 97c:20057**
Shvartsman, O. V. Torsion in the quotient group of the Artin-Brieskorn braid group with respect to the center, and regular Springer numbers. (Russian. Russian summary) **97b:20059**
Wong, Yan Loi *see* **Leung, Ka Hin, 97d:20044**
Xue, Kang (*with* Meng, Xiang Jun) Extended TL algebras, BW algebras and Yang-Baxterization. (Chinese. English and Chinese summaries)
Zhu, Jun[1] *see* **Fenn, Roger; et al., 97h:20047**

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Arnol'd, V. I. Topological classification of complex trigonometric polynomials and the combinatorics of graphs with an identical number of vertices and edges. (Russian. Russian summary) **97d:32053**
Backofen, Olaf J. Composite A, B, C, D-IRF-model invariants. (English summary) **97h:57012**
Charney, Ruth (*with* Davis, Michael Walter) Finite $K(\pi, 1)$s for Artin groups. **97a:57001**
Constantinescu, Florin (*with* Neumann, Frank[2]) Monodromy groups and bilinear monodromy invariant combinations of generalized hypergeometric type integrals. (English summary) **97g:32018**
Dai, Jian Hui *see* **Wang, Lu Yu; et al., 97j:82060**
Dai, Lianrong *see* **Pan, Feng, 97k:81076**
Davis, Michael Walter *see* **Charney, Ruth, 97a:57001**
De Concini, Corrado (*with* Salvetti, Mario) Cohomology of Artin groups: Addendum: "The homotopy type of Artin groups" [Math. Res. Lett. **1** (1994), no. 5, 565–577; MR 95j:52026] by Salvetti. **97b:52015**
Dehornoy, Patrick The structure group for the associativity identity. (English summary) **97d:55033**
Fonar, Louis On the quotients of cubic Hecke algebras. (English summary) **97c:57006**
Ge, Mo Lin (*with* Xue, Kang; Wu, Yong Shi[1]) Yang-Baxterization and algebraic structures. (English summary) **97b:82034**
Grimm, Uwe Trigonometric R matrices related to "dilute" Birman-Wenzl-Murakami algebra. (English summary) **97a:82032**
Grosberg, A. Yu. *see* **Nechaev, S. K.; et al., 97j:60015**
Gupta, Chander Kanta Generating sets of certain automorphism groups. **97h:20046**
Hsu, Tim Some quilts for the Mathieu groups. (English summary) **97a:20024**
Ihara, Yasutaka (*with* Matsumoto, Makoto) On Galois actions on profinite completions of braid groups. (English summary) **97c:12003**
Kamada, Seiichi An observation of surface braids via chart description. (English summary) **97j:57009**
Kerler, Thomas On braided tensorcategories. **97d:18006**
Khovanskiĭ, A. G. (*with* Zdravkovska, Smilka) Branched covers of S^2 and braid groups. **97a:57002**
Kolev, B. Braid types of periodic orbits. (English summary) **97j:58124**
Kwon, Oh Kang Irreducible representations of braid groups via quantized enveloping algebras. (English summary) **97e:17021**
Labruère, Catherine Groupes de tresses généralisés et mapping class groups. (English and French summaries) [Generalized braid groups and mapping class groups] **97c:57002**
Matsumoto, Keiji (*with* Takayama, Nobuki) Braid group and a confluent hypergeometric function. (English summary) **97g:33002**
Matsumoto, Makoto *see* **Ihara, Yasutaka, 97c:12003**
Mihalik, Michael L. Semistability of Artin and Coxeter groups. (English summary) **97e:20060**
Moishezon, Boris (*with* Teicher, Mina) Braid group technique in complex geometry. V. The fundamental group of a complement of a branch curve of a Veronese generic projection. **97j:14041**
Nechaev, S. K. (*with* Grosberg, A. Yu.; Vershik, A. M.) Random walks on braid groups: Brownian bridges, complexity and statistics. (English summary) **97j:60015**
Neumann, Frank[2] *see* **Constantinescu, Florin, 97g:32018**
Pan, Feng (*with* Dai, Lianrong) Braid-group approach to the derivation of universal $\hat{R}$ matrices. (English summary) **97k:81076**
Salvetti, Mario *see* **De Concini, Corrado, 97b:52015**
Stanford, Ted Braid commutators and Vassiliev invariants. (English summary) **97i:57008**
Takayama, Nobuki (*with* Yoshida, Masaaki) CR-geometry on the configuration space of 5 points on the projective line. **97h:57005**
— *see also* **Matsumoto, Keiji, 97g:33002**
Teicher, Mina *see* **Moishezon, Boris, 97j:14041**
Vershik, A. M. *see* **Nechaev, S. K.; et al., 97j:60015**
Wang, Lu Yu (*with* Dai, Jian Hui; Zhang, Jun[3]) A new representation of Birman-Wenzl algebra and solution of Yang-Baxter equation. (English summary) **97j:82060**
Wu, Yong Shi[1] *see* **Ge, Mo Lin; et al., 97b:82034**
Xue, Kang *see* **Ge, Mo Lin; et al., 97b:82034**
Yan, Hong (*with* Zhang, Jun[3]) Knitting ansatz and solutions to Yang-Baxter equation. (English summary) **97j:82062**
Yoshida, Masaaki *see* **Takayama, Nobuki, 97h:57005**
Zdravkovska, Smilka *see* **Khovanskiĭ, A. G., 97a:57002**
Zhang, Jun[3] *see* **Wang, Lu Yu; et al., 97j:82060** *and* **Yan, Hong, 97j:82062**

20F38 Other groups related to topology or analysis

Heusener, Michael Representations of palindromically presented groups onto finite subgroups of $SO_3(\mathbf{R})$. (English summary) **97a:20064**

Items with secondary classifications in 20F38

Bass, Hyman (*with* Otero-Espinar, Maria Victoria; Rockmore, Daniel N.; Tresser, Charles) ★ Cyclic renormalization and automorphism groups of rooted trees. **97k:58058**

Hain, Richard M. Infinitesimal presentations of the Torelli groups. **97k:14024**
Kitano, Teruaki Johnson's homomorphisms of subgroups of the mapping class group, the Magnus expansion and Massey higher products of mapping tori. (English summary) **97f:57014**
Otero-Espinar, Maria Victoria *see* **Bass, Hyman; et al., 97k:58058**
Rockmore, Daniel N. *see* **Bass, Hyman; et al., 97k:58058**
Rybicki, Tomasz Homology of the group of leaf preserving homeomorphisms. **97g:57049**
Tresser, Charles *see* **Bass, Hyman; et al., 97k:58058**
Xia, Yining On the connectivity of posets in the mapping class group. (English summary) **97k:57003**

20F40 Associated Lie structures

Items with secondary classifications in 20F40

Billig, Yu. V. (*with* Pianzola, Arturo) Free groups of Lie type. (English summary) **97j:20027**
Oda, Takayuki Galois action on the nilpotent completion of the fundamental group of an algebraic curve. **97g:14027**
Papadima, Ştefan Finite determinacy phenomena for finitely presented groups. (English summary) **97b:20050**
Pianzola, Arturo *see* **Billig, Yu. V., 97j:20027**

20F45 Engel conditions

Items with secondary classifications in 20F45

Endimioni, G. Groups in which every d-generator subgroup is nilpotent of bounded class. **97e:20037**
Kurdics, J. Engel properties of group algebras. I. (English summary) **97k:16036**

20F50 Periodic groups; locally finite groups

Beidleman, James C. (*with* Smith, Howard) On maximal subgroups of infinite groups. **97a:20065**
Bruno, Brunella (*with* Dalle Molle, Marianna) On local-solvability of groups containing a locally nilpotent maximal subgroup. **97j:20036**
Dalle Molle, Marianna *see* **Bruno, Brunella, 97j:20036**
Franciosi, Silvana (*with* de Giovanni, Francesco; Sysak, Yaroslav P.) An extension of the Kegel-Wielandt theorem to locally finite groups. **97d:20046**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 97d:20046**
Hartley, Brian On some simple locally finite groups constructed by Meierfrankenfeld. **97b:20060**
Khukhro, E. I. (*with* Shumyatskiĭ, P. V.) On fixed points of automorphisms of Lie rings and of locally finite groups. (Russian. Russian summary) **97c:20059**
Kim, Yang Kok Groups preserving the cardinality of subsets product under permutations. (English summary) **97g:20043**
Leinen, Felix Irreducible representations of periodic finitary linear groups. **97c:20060**
Lysënok, I. G. Infinite Burnside groups of even period. (Russian. Russian summary) **97j:20037**
Meierfrankenfeld, U. Non-finitary locally finite simple groups. (English summary) **97a:20066**
Senashov, V. I. Development of the theory of layer-finite groups. (English summary) (*see* **97c:00034**)
— Characterization of generalized Chernikov groups. (Russian)
Shumyatskiĭ, P. V. Involutory automorphisms of periodic groups. **97j:20038**
— *see also* **Khukhro, E. I., 97c:20059**
Shunkov, V. P. Recent investigations in group theory at the Krasnoyarsk State University. (English summary) (*see* **97c:00034**)
Smith, Howard (*with* Wiegold, James) Locally graded groups with all subgroups normal-by-finite. (English summary) **97a:20067**
— *see also* **Beidleman, James C., 97a:20065**
Sysak, Yaroslav P. *see* **Franciosi, Silvana; et al., 97d:20046**
Wiegold, James *see* **Smith, Howard, 97a:20067**

Items with secondary classifications in 20F50

Belyaev, V. V. Topologization of countable locally finite groups. (Russian. Russian summary) **97e:22001**
Franciosi, Silvana (*with* de Giovanni, Francesco; Heineken, Hermann) On automorphisms fixing non-normal subgroups of groups. **97a:20051**
de Giovanni, Francesco *see* **Franciosi, Silvana; et al., 97a:20051**
Hammoudi, Lakhdar Le nombre d'images homomorphes de certains groupes et algèbres de Golod. (English summary) [The number of homomorphic images of certain groups and Golod algebras] **97i:16014**
Heineken, Hermann *see* **Franciosi, Silvana; et al., 97a:20051**
Ivko, M. N. (*with* Senashov, V. I.) On a new class of infinite groups. (English and Ukrainian summaries) **97m:20046**
Kropholler, Peter H. (*with* Thomas, Simon R.) The consistency of Holt's conjectures on cohomological dimension of locally finite groups. **97k:20082**
Puglisi, Orazio Sylow subgroups of finitary linear groups. (English summary) **97k:20081**
Senashov, V. I. *see* **Ivko, M. N., 97m:20046**
Sidki, Said A primitive ring associated to a Burnside 3-group. (English summary) **97m:16006**
Thomas, Simon R. *see* **Kropholler, Peter H., 97k:20082**

20F55 Coxeter groups [see also 22E40]

Ariki, Susumu q-analogue of a twisted group ring. **97k:20064**
Brink, Brigitte On centralizers of reflections in Coxeter groups. (English summary) **97g:20044**
Costantini, Mauro The group of autoprojectivities of the finite irreducible Coxeter groups. **97c:20061**
Dyer, M. J. Representation theories from Coxeter groups. (English summary) **97a:20068**
Fan, C. Kenneth Structure of a Hecke algebra quotient. (English summary) **97k:20065**
Geck, Meinolf (*with* Michel, Jean Christian Marie) "Good" elements of finite Coxeter groups and representations of Iwahori-Hecke algebras. **97i:20050**
Getino, Jose Linear Coxeter groups of Euclidean type. (English summary) **97a:20069**
Gomi, Yasushi Structure constants of the Hecke algebras $\mathscr{H}(S, J)$ and applications. **97e:20062**
Hulsurkar, Suwarna *see* **Youssef, Samy A., 97f:20050**
Lusztig, George Affine Weyl groups and conjugacy classes in Weyl groups. (English summary) **97g:20045**
Meignen, Pierrick Fractions continues cliffordiennes. (English and French summaries) [Cliffordian continued fractions] **97b:20061**
Michel, Jean Christian Marie *see* **Geck, Meinolf, 97i:20050**
Moszkowski, Paul Longueur des involutions et classification des groupes de Coxeter finis. (English and French summaries) [Length of involutions and classification of finite Coxeter groups] **97f:20049**
Paris, Luis Commensurators of parabolic subgroups of Coxeter groups. (English summary) **97e:20063**
Rui, He Bing Left cells in affine Weyl groups of types other than $\tilde{A}_n$ and $\tilde{G}_2$. **97a:20070**
Shi, Jian-Yi The partial order on two-sided cells of certain affine Weyl groups. **97a:20071**
Stembridge, John R. On the fully commutative elements of Coxeter groups. (English summary) **97g:20046**
Tagawa, Hiroyuki On the non-negativity of the first coefficient of Kazhdan-Lusztig polynomials. **97b:20062**
— A decomposition of R-polynomials and Kazhdan-Lusztig polynomials. **97d:20047**
Youssef, Samy A. (*with* Hulsurkar, Suwarna) On connectedness of graphs on direct product of Weyl groups. (English summary) **97f:20050**

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Baik, Y. G. (*with* Pride, S. J.) On the efficiency of Coxeter groups. (English summary) **97h:20040**
Björner, Anders (*with* Brenti, Francesco) An improved tableau criterion for Bruhat order. (English summary) **97c:05160**
— (*with* Sagan, Bruce E.) Subspace arrangements of type B_n and D_n. (English summary) **97g:52028**
Borovik, A. V. (*with* Gel'fand, Izrail' Moiseevich; White, Neil L.) Boundaries of Coxeter matroids. (English summary) **97j:05021**
Brenti, Francesco *see* **Björner, Anders, 97c:05160**
Chen, Cheng Dong *see* **Chen, Yu[4], 97e:20007**
Chen, Yu[4] (*with* Chen, Cheng Dong) An irreducible complex representation of Hecke algebras of type $\tilde{B}_n$. (Chinese. English and Chinese summaries) **97e:20007**
De Concini, Corrado (*with* Salvetti, Mario) Cohomology of Artin groups: Addendum: "The homotopy type of Artin groups" [Math. Res. Lett. **1** (1994), no. 5, 565–577; MR 95j:52026] by Salvetti. **97b:52015**
Dubrovin, B. A. Geometry of 2D topological field theories. **97d:58038**
Eriksson, Kimmo Reduced words in affine Coxeter groups. (English and French summaries) **97k:05206**
Esselmann, Frank The classification of compact hyperbolic Coxeter d-polytopes with $d + 2$ facets. (English summary) **97j:52015**
Fan, C. Kenneth A Hecke algebra quotient and some combinatorial applications. (English summary) **97k:20013**
Geck, Meinolf (*with* Lambropoulou, Sofia) Markov traces and knot invariants related to Iwahori-Hecke algebras of type B. **97m:57005**
Gel'fand, Izrail' Moiseevich *see* **Borovik, A. V.; et al., 97j:05021**
Gévay, G. Kepler hypersolids. **97a:52013**
Hawkins, Lee Constructing irreducible representations of Weyl groups. (English summary) **97g:20008**
Hulsurkar, Suwarna *see* **Youssef, Samy A., 97b:05068**
Ignatenko, V. F. Invariants of finite and infinite groups generated by reflections. (English summary) **97b:13007**
Lambropoulou, Sofia *see* **Geck, Meinolf, 97m:57005**
Mathas, Andrew On the left cell representations of Iwahori-Hecke algebras of finite Coxeter groups. (English summary) **97h:20008**
Michor, Peter W. Basic differential forms for actions of Lie groups. II. (English summary) **97k:57046**
Mihalik, Michael L. Semistability of Artin and Coxeter groups. (English summary) **97e:20060**
Moody, R. V. (*with* Patera, J.) Voronoï domains and dual cells in the generalized kaleidoscope with applications to root and weight lattices. (English summary) **97c:17008**
Neumann, Frank[1] (*with* Neusel, Mara D.; Smith, Larry) Rings of generalized and stable invariants of pseudoreflections and pseudoreflection groups. (English summary) **97h:13004**
Neusel, Mara D. *see* **Neumann, Frank[1]; et al., 97h:13004**
Pallikaros, C. A. Some decomposition numbers of Hecke algebras. **97m:20022**
Patera, J. *see* **Moody, R. V., 97c:17008**
Pride, S. J. *see* **Baik, Y. G., 97h:20040**
Roberts, Richard Mark (*with* Zakalyukin, V. M.) Symmetric wavefronts, caustic and Coxeter groups. (English summary) **97b:58020**
Sagan, Bruce E. *see* **Björner, Anders, 97g:52028**
Salvetti, Mario *see* **De Concini, Corrado, 97b:52015**
Shvartsman, O. V. Torsion in the quotient group of the Artin-Brieskorn braid group with respect to the center, and regular Springer numbers. (Russian. Russian summary) **97b:20059**
Smith, Larry *see* **Neumann, Frank[1]; et al., 97h:13004**
Stanley, Richard P. Hyperplane arrangements, interval orders, and trees. (English summary) **97i:52013**
Stembridge, John R. Some combinatorial aspects of reduced words in finite Coxeter groups. (English summary) **97h:05181**

Viallet, Claude M. On some rational Coxeter groups. (English summary) **97j:14017**
White, Neil L. The Coxeter matroids of Gelfand et al. (English summary) **97h:05039**
— *see also* **Borovik, A. V.; et al., 97j:05021**
Youssef, Samy A. (*with* Hulsurkar, Suwarna) On planarity of graphs on Weyl groups. (English summary) **97b:05068**
Zakalyukin, V. M. *see* **Roberts, Richard Mark, 97b:58020**
Zha, Jianguo The crystallographic groups associated with infinite classical Weyl groups. (English summary) **97h:20058**

20F60 Ordered groups [See mainly 06F15]

Items with secondary classifications in 20F60

Cleary, Sean Groups of piecewise-linear homeomorphisms with irrational slopes. (English summary) **97d:20040**
Gurchenkov, S. A. On Engel lattice-ordered groups. (Russian. Russian summary) **97f:06035**
Keimel, Klaus Some trends in lattice-ordered groups and rings. (English summary) **97c:06021**
Kopytov, Valeriĭ M. (*with* Medvedev, Nikolaĭ Ya.) ★ The theory of lattice-ordered groups. (English summary) **97k:06028**
— (*with* Medvedev, Nikolaĭ Ya.) ★ Right-ordered groups. **97h:06024a**
— (*with* Medvedev, Nikolaĭ Ya.) ★ Правоупорядоченные группы. (Russian. Russian summary) [Right-ordered groups] **97h:06024b**
Kuhlmann, Franz-Viktor Abelian groups with contractions. II. Weak o-minimality. (English summary) **97g:03044**
Lavrič, Boris ★ Delno urejene grupe in delno urejeni kolobarji. (Slovenian. English and Slovenian summaries) [Partially ordered groups and partially ordered rings] **97c:06001**
Medvedev, Nikolaĭ Ya. *see* **Kopytov, Valeriĭ M., 97h:06024a; 97h:06024b** *and* **97k:06028**
Tong, Dao Rong Polar operators in lattice of radical classes of l-groups. (English summary) **97c:06022**
Wang, Jian Qiang Extension of the ω-order in a partially ordered group. (Chinese. English and Chinese summaries) **97c:06023**
Weinert, Hanns Joachim (*with* Wiegandt, Richard) On the structure of semifields and lattice-ordered groups. **97g:12011**
Wiegandt, Richard *see* **Weinert, Hanns Joachim, 97g:12011**
Zhang, Yue Hui Unique covering on radical classes of l-groups. **97e:06021**

20F99 None of the above, but in this section

Chechulin, V. L. *see* **Chernikov, N. S.; et al., 97i:20051**
Chernikov, N. S. (*with* Polovitskiĭ, Ya. D.; Chechulin, V. L.) Groups with the incidence condition for noncyclic subgroups. (Russian. English and Ukrainian summaries) **97i:20051**
— Groups that are factorizable by permutable almost locally normal subgroups. (Russian. English and Ukrainian summaries)
Huang, Ping An Some principles concerning complete groups. (Chinese. English and Chinese summaries)
— Interrelations and properties of PN groups and semicomplete groups. (Chinese. English and Chinese summaries)
Kislyakov, V. E. Groups with an element that is permutable with only a finite number of its conjugate elements. (Russian. Russian summary) **97k:20066**
Klyatskaya, L. M. Nonabelian groups with complemented pure subgroups. (Russian) **97k:20067**
Kropholler, Peter H. (*with* Roller, Martin A.) Remarks on a theorem of Swarup on ends of pairs of groups. (English summary) **97c:20062**
Kuzennyĭ, N. F. (*with* Semko, N. N.) On groups that are close to metacyclic groups. (Ukrainian. English and Ukrainian summaries) **97i:20052**
Marchionna Tibiletti, C. Transitivité pour une certaine "normalité faible" dans un groupe. (English summary) [Transitivity for a certain "weak normality" in a group] **97b:20063**
Moran, Gadi On product-equality-preserving mappings in groups. (English summary) **97i:20053**
Myasnikov, A. G. (*with* Remeslennikov, V. N.) Exponential groups. II. Extensions of centralizers and tensor completion of CSA-groups. **97j:20039**
Point, Françoise (*with* Wantiez, Patricia) Nilpotency criteria for multiplicative Lie algebras. (English summary) **97h:20050**
Polovitskiĭ, Ya. D. *see* **Chernikov, N. S.; et al., 97i:20051**
Remeslennikov, V. N. *see* **Myasnikov, A. G., 97j:20039**
Roller, Martin A. *see* **Kropholler, Peter H., 97c:20062**
Semko, N. N. *see* **Kuzennyĭ, N. F., 97i:20052**
Sozutov, A. I. On groups with the class of Frobenius-abelian elements. (Russian. Russian summary) **97c:20063**
Wantiez, Patricia *see* **Point, Françoise, 97h:20050**

Items with secondary classifications in 20F99

Beukers, F. (*with* Schlickewei, Hans Peter) The equation $x + y = 1$ in finitely generated groups. **97k:11051**
D'Alessandro, Flavio A note on the multiplicative group of a division ring. **97j:16012**
Dickenschied, Oliver On the adjoint group of some radical rings. **97m:16035**
Obraztsov, V. N. Embedding into groups with well-described lattices of subgroups. (English summary) **97k:20051**
Schlickewei, Hans Peter *see* **Beukers, F., 97k:11051**
Xu, Maoqian Groups whose proper subgroups are Baer groups. (English summary) **97d:20036**

20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

Items with secondary classifications in 20Gxx

Carter, R. W. (*with* Segal, Graeme; Macdonald, Ian G.) ★ Lectures on Lie groups and Lie algebras. (English summary) **97f:17002**
Macdonald, Ian G. *see* **Carter, R. W.; et al., 97f:17002**
Segal, Graeme *see* **Carter, R. W.; et al., 97f:17002**
(Taylor, Martin J.) *see* **Carter, R. W.; et al., 97f:17002**

20G05 Representation theory

Aburto-Hageman, Luisa Green's formula for $SL(2, k)$. **97h:20051**
Andersen, Henning Haahr The irreducible characters for semi-simple algebraic groups and for quantum groups. **97m:20051**
— Modular representations of algebraic groups and relations to quantum groups. **97j:20040**
André, Carlos A. M. On the coadjoint orbits of the unitriangular group. **97f:20051**
Brion, Michel Plethysm and Verma modules. **97d:20048**
Brundan, Jonathan Multiplicity-free subgroups of reductive algebraic groups. (English summary) **97m:20052**
Bryant, Roger M. Groups acting on polynomial algebras. (English summary) **97b:20064**
Cohen, Arjeh Marcel (*with* Wales, David B.) GL(4)-orbits in a 16-dimensional module for characteristic 3. (English summary) **97k:20068**
Dai, Lianrong *see* **Pan, Feng, 97j:20041** *and* **97j:20042**
Donkin, Stephen Standard homological properties for quantum GL_n. **97b:20065**
— On projective modules for algebraic groups. **97c:20064**
Doty, Stephen R. (*with* Nakano, Daniel K.; Peters, Karl M.) Polynomial representations of Frobenius kernels of GL_2. (English summary) **97c:20065**
Dowd, Michael F. (*with* Sin, Peter) On representations of algebraic groups in characteristic two. **97c:20066**
Glushkova, L. V. On a system of basis invariants of the group E_7. (English summary) (*see* **97h:00019**)
Green, R. M. A straightening formula for quantized codeterminants. **97k:20069**
Gyōja, Akihiko Recent developments in prehomogeneous vector spaces. (Japanese) **97f:20052**
Hiss, Gerhard Supercuspidal representations of finite reductive groups. **97k:20070**
Horvath, Jozsef On the equations defining irreducible algebraic groups. **97c:20067**
Kimura, Tatsuo (*with* Ueda, Kosei; Yoshigaki, Takeshi) A classification of 3-simple prehomogeneous vector spaces of nontrivial type. **97e:20064**
King, Ronald Curtis (*with* Welsh, Trevor Alan) Construction of orthogonal group modules using tableaux. (English summary) **97c:20068**
— (*with* Welsh, Trevor Alan) Construction of $GL(n)$-modules using composite tableaux. (English summary) **97g:20047**
Kirillov, Aleksandr Aleksandrovich Variations on the triangular theme. **97a:20072**
Koike, Kazuhiko Representations of classical groups. (Japanese) **97m:20053**
Magid, Andy R. Small infinite-dimensional modules for algebraic groups. (English summary) **97d:20049**
Maliakas, Mihalis Some remarks on filtrations and plethysms. II. **97i:20055**
— Some remarks on filtrations and plethysms. **97i:20054**
— Resolutions and parabolic Schur algebras. **97b:20066**
— On a character formula involving Borel subgroups. **97k:20071**
Malle, Gunter Unipotente Grade imprimitiver komplexer Spiegelungsgruppen. (German summary) [Unipotent degrees of imprimitive complex reflection groups] **97a:20073**
Masuda, Mikiya (*with* Moser-Jauslin, Lucy; Petrie, Ted) The equivariant Serre problem for abelian groups. **97a:20074**
Mehta, Vikram (*with* Venkataramana, T. N.) A note on Steinberg modules and Frobenius splitting. **97c:20069**
Montagard, Pierre-Louis Une nouvelle propriété de stabilité du pléthysme. [A new stability of plethysm] **97m:20054**
Moser-Jauslin, Lucy *see* **Masuda, Mikiya; et al., 97a:20074**
Nakano, Daniel K. *see* **Doty, Stephen R.; et al., 97c:20065**
Pan, Feng (*with* Dai, Lianrong) Subduction coefficients of Brauer algebras and Racah coefficients of $O(n)$ and $Sp(2m)$. I. Subduction coefficients. (English summary) **97j:20041**
— (*with* Dai, Lianrong) Subduction coefficients of Brauer algebras and Racah coefficients of $O(n)$ and $Sp(2m)$. II. Racah coefficients. (English summary) **97j:20042**
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Waki, Katsushi About the decomposition matrix of $Sp(4, q)$. (English summary) **97k:20075**
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Aslaksen, Helmer (*with* Tan, Eng-Chye; Zhu, Chen-Bo) On $O_m \times GL_n$ highest weight vectors. **97a:13009**
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Boffi, Giandomenico (*with* Varagnolo, Michela) A Littlewood-Richardson filtration at roots of 1 for quantum deformations of skew Schur modules. (English summary) **97f:16061**
Brunetti, Maurizio On the canonical $GL_2(\mathbf{F}_2)$-module structure of $K(n)^*(B\mathbf{Z}/2 \times B\mathbf{Z}/2)$. (English summary) **97f:55004**
Carré, Christophe (*with* Leclerc, Bernard) Splitting the square of a Schur function into its symmetric and antisymmetric parts. (English summary) **97b:05165**
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Erdmann, Karin Decomposition numbers for symmetric groups and composition factors of Weyl modules. **97a:20016**
Fan, C. Kenneth Structure of a Hecke algebra quotient. (English summary) **97k:20065**
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Gyōja, Akihiko Z-forms of representations of reductive groups and prehomogeneous vector spaces. (*see* **97a:11006**)
Hewett, T. J. Modular invariant theory of parabolic subgroups of $GL_n(\mathbf{F}_q)$ and the associated Steenrod modules. **97c:13002**
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Kuhn, Nicholas J. Generic representations of the finite general linear groups and the Steenrod algebra. III. (English summary) **97c:55026**
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Levstein, Fernando Invariant polynomials under the maximal unipotent subgroup of a classical group. (English summary) **97e:13009**
Lin, Zongzhu (*with* Nakano, Daniel K.) Representations of Hopf algebras arising from Lie algebras of Cartan type. **97m:17010**
de Man, Ronald *see* **Cohen, Arjeh Marcel**, **97i:17005** *and* **Deligne, Pierre**, **97k:22008**
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Nguyễn Hữu Việt Hưng (*with* Pham Anh Minh) The action of the mod p Steenrod operations on the modular invariants of linear groups. (English summary) **97c:55027**
Olsson, J. B. (*with* Uno, K.) Dade's conjecture for general linear groups in the defining characteristic. **97b:20010**
Parshall, Brian J. Koszul algebras and duality. (English summary) **97a:16027**
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Pillen, Cornelius The first Cartan invariant of a finite group of Lie type for large p. **97d:20013**
Rapoport, Michael (*with* Zink, Th.) ★ Period spaces for p-divisible groups. **97f:14023**
Rashkova, Tsetska Gr. Varieties of algebras having a distributive lattice of subvarieties. **97g:16034**
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Seitz, G. M. Algebraic groups. (English summary) **97d:20055**
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Wybourne, B. G. *see* **Yang, Mei**, **97b:05170**
Yang, Mei (*with* Wybourne, B. G.) Squares of S-functions of special shapes. (English summary) **97b:05170**
Zabric, Eva Hall polynomials for symplectic groups. II. (English summary) **97e:20069**
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20G10 Cohomology theory

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Dowd, Michael F. On the 1-cohomology of finite groups of Lie type. (English summary) **97k:20076**
Ducros, Antoine Principe de Hasse pour les espaces principaux homogènes sous les groupes classiques sur un corps de dimension cohomologique virtuelle au plus 1. (English summary) [Hasse principle for principal homogeneous spaces under classical groups over a field of virtual cohomological dimension at most 1] **97d:20052**
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Betley, Stanisław Calculations in THH-theory. **97a:19002**
Dowd, Michael F. On the 1-cohomology of the groups $SL_4(2^n)$, $SU_4(2^n)$, and $Spin_7(2^n)$. (English summary) **97f:20061**
— (*with* Sin, Peter) On representations of algebraic groups in characteristic two. **97c:20066**
Elbaz-Vincent, Philippe Homology of the special linear group and K-theory. (English and French summaries) **97b:19001**
Scheiderer, Claus Hasse principles and approximation theorems for homogeneous spaces over fields of virtual cohomological dimension one. (English summary) **97f:14019**
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20G15 Linear algebraic groups over arbitrary fields

Ambrosiewicz, Jan The inequality $\mathrm{cn}(\mathrm{PSL}(n, K)) \leq 4$ holds for $n = 2, 3$ and infinite field K.
Bashkirov, E. L. On subgroups of the special linear group of degree 2 over an infinite field. (Russian. Russian summary) **97g:20050**
— Linear groups that contain a root subgroup. (Russian. Russian summary) **97m:20055**
Egorychev, G. P. (*with* Levchuk, V. M.) Enumeration of characteristic subgroups of unipotent Lie-type groups. (English summary) **97g:20051**
Ellers, Erich W. (*with* Nolte, Wolfgang) A characterization of subgroups of the orthogonal group. (English summary) **97f:20054**
Ford, Ben Overgroups of irreducible linear groups. I. **97b:20067**
Hahn, Alexander J. The elements of the orthogonal group $\Omega_n(V)$ as products of commutators of symmetries. (English summary) **97i:20056**
Harebov, Alan (*with* Vavilov, N. A.) On the lattice of subgroups of Chevalley groups containing a split maximal torus. (English summary) **97a:20077**
Huang, Wenxue On nilpotent and solvable algebraic groups and monoids. (English summary) **97e:20065**
Humphreys, James E. ★ Conjugacy classes in semisimple algebraic groups. **97i:20057**
Kim, Dae San On the finiteness of certain double coset spaces. (English summary) **97d:20054**
Konyukh, V. S. Imprimitive locally nilpotent linear groups. (Russian. English and Russian summaries) **97f:20055**
Kozel, P. T. On the structure of the elements of an orthogonal group over an algebraically closed field of characteristic 2. (Russian. English and Russian summaries) **97a:20078**
Lev, Arieh The covering number of the group $\mathrm{PSL}_n(F)$. (English summary) **97h:20052**
Levchuk, V. M. *see* **Egorychev, G. P.**, **97g:20051**
Liang, Ke Parabolic induction of nilpotent geometric orbital data. (Chinese)
Merkur'ev, A. S. Maximal indexes of Tits algebras. (English summary) **97g:20052**
Nebe, Gabriele Finite subgroups of $GL_n(\mathbf{Q})$ for $25 \leq n \leq 31$. (English summary) **97e:20066**
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Scheiderer, Claus Classification of Hermitian forms and semisimple groups over fields of virtual cohomological dimension one. (English summary) **97f:20056**
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Serre, Jean-Pierre Exemples de plongements des groupes $\mathrm{PSL}_2(\mathbf{F}_p)$ dans des groupes de Lie simples. [Examples of embeddings of the groups $\mathrm{PSL}_2(\mathbf{F}_p)$ into simple Lie groups] **97d:20056**
Vavilov, N. A. *see* **Harebov, Alan**, **97a:20077**
Vinberg, È. B. On reductive algebraic semigroups. **97d:20057**
Zha, Jianguo An embedding theorem between special linear groups over any fields. (English summary) **97b:20068**
— Homomorphisms between the Chevalley groups over any fields of characteristic zero. (English summary) **97b:20069**

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Borovoĭ, M. V. Abelianization of the first Galois cohomology of reductive groups. **97d:20051**
Helminck, A. G. Computing B-orbits on G/H. (English summary) **97e:14061**
Leasher, Barbara A. Geometric aspects of Steinberg groups defined by Jordan pairs. **97a:17033**
Mallakas, Mihalis On a character formula involving Borel subgroups. **97k:20071**
Manji, Imtiaz A. (*with* Sánchez, Rafael) On the homology of the Schur complex. **97e:13024**
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Rohlfs, Jürgen (*with* Springer, Tonny Albert) Applications of buildings. **97b:20041**
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Scharlau, Rudolf Buildings. **97h:51018**
Springer, Tonny Albert *see* **Rohlfs, Jürgen, 97b:20041**
Vavilov, N. A. (*with* Plotkin, Eugene Boris) Chevalley groups over commutative rings. I. Elementary calculations. (English summary) **97h:20056**

20G20 Linear algebraic groups over the reals, the complexes, the quaternions

Adyan, S. I. (*with* Lysënok, I. G.; Mennicke, Jens L.) Defining relations and the algebraic structure of the group SL_2 over integral Hamilton quaternions. **97k:20077**
Bîlâ, N. *see* **Udrişte, Constantin; et al., (97e:53002)**
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Cohen, Arjeh Marcel (*with* Wales, David B.) Finite subgroups of $F_4(\mathbf{C})$ and $E_6(\mathbf{C})$. (English summary) **97k:20078**
Larsen, Michael Jeffrey On the conjugacy of element-conjugate homomorphisms. II. **97b:20070**
Lysënok, I. G. *see* **Adyan, S. I.; et al., 97k:20077**
Mennicke, Jens L. *see* **Adyan, S. I.; et al., 97k:20077**
Rietsch, Konstanze The infinitesimal cone of a totally positive semigroup. (English summary) **97m:20056**
Röhrle, Gerhard Parabolic subgroups of positive modality. (English summary) **97c:20070**
Udrişte, Constantin (*with* Bucur, Constantin M.; Bîlâ, N.) Les caractéristiques du groupe linéaire général. (English, French and Romanian summaries) [The characteristics of the general linear group] (*see* **97e:53002**)
Wales, David B. *see* **Cohen, Arjeh Marcel, 97k:20078**
Wang, Xian Tao Friedland and Hersonsky's conjecture for matrix algebra. **97c:20071**

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Cohen, Arjeh Marcel (*with* Nebe, Gabriele; Plesken, Wilhelm) Cayley orders. **97k:11053**
Mitschi, C. (*with* Singer, M. F.) On Ramis's solution of the local inverse problem of differential Galois theory. (English summary) **97e:12009**
Moskowitz, Martin Exponentiality of algebraic groups. **97k:22009**
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Plesken, Wilhelm *see* **Cohen, Arjeh Marcel; et al., 97k:11053**
Porteous, Ian R. ★ Clifford algebras and the classical groups. (English summary) **97c:15046**
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20G25 Linear algebraic groups over local fields and their integers

Haboush, William J. Algebraic representations of reductive groups over local fields. **97f:20057**

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Aubert, Anne-Marie Erratum: "Duality in the Grothendieck group of the category of finite-length smooth representations of a p-adic reductive group" [Trans. Amer. Math. Soc. **347** (1995), no. 6, 2179–2189; MR 95i:22025]. (French) **97e:22019**
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Rapoport, Michael (*with* Zink, Th.) ★ Period spaces for p-divisible groups. **97f:14023**
Vignéras, Marie-France ★ Représentations l-modulaires d'un groupe réductif p-adique avec $l \neq p$. (French. English summary) [l-modular representations of a reductive p-adic group with $l \neq p$] **97g:22007**
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20G30 Linear algebraic groups over global fields and their integers

Chang, Shu-Chu (*with* Li, Chêng) Two-sided equivalence on the special linear group. (English summary) **97h:20054**
— Double coset decomposition for $SL(r+s, \mathbf{Z})$ with respect to congruence subgroups. (English summary) **97i:20058**
Colliot-Thélène, Jean-Louis Groupes linéaires sur les corps de fonctions de courbes réelles. [Linear groups over function fields of real curves] **97c:20072**
Kitaoka, Yoshiyuki (*with* Suzuki, Hiroshi) Finite arithmetic subgroups of GL_n. IV. **97g:20053**
Kohnen, Winfried On the generators of $Sp_n(\mathbf{Z})$. (English summary) **97k:20079**
Li, Chêng *see* **Chang, Shu-Chu, 97h:20054**
Mackiw, George Finite groups of 2×2 integer matrices.
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Nazarov, M. L. Young's orthogonal form for Brauer's centralizer algebra. **97m:20057**
Neusel, Mara D. Cubic invariants of $GL(2, \mathbf{Z})$. **97d:20058**
Nguyễn Quôc Thăng Some local-global principles in the arithmetic of algebraic groups over real function fields. **97h:20055**
Suzuki, Hiroshi *see* **Kitaoka, Yoshiyuki, 97g:20053**

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Arlettaz, Dominique (*with* Zelewski, Piotr M.) Linear group homology properties of the inclusion of a ring of integers into a number field. **97d:19005**
Borovoi, M. V. Abelianization of the first Galois cohomology of reductive groups. **97d:20051**
Durnev, V. G. On elementary theories of linear groups over the integers. (Russian. Russian summary) **97c:03107**
Zelewski, Piotr M. *see* **Arlettaz, Dominique, 97d:19005**

20G35 Linear algebraic groups over adèles and other rings and schemes

Baranovskiĭ, V. Yu. (*with* Ginzburg, V. A.) Conjugacy classes in loop groups and G-bundles on elliptic curves. **97j:20044**
Bui Xuan Hai (*with* Tran Ngoc Hoi) On subgroups of the general linear group over a commutative von Neumann regular ring. (English summary) **97a:20079**
Chen, Yi Hong Bireflectionality of the orthogonal groups over a commutative integral domain. (Chinese. English and Chinese summaries)
Chen, Yi Hong² A new proof of the presentation theorem for general linear groups over division rings. (Chinese. English and Chinese summaries) **97m:20058**
— Bireflectionality of the orthogonal group over a principal ideal domain. (English summary)
Ginzburg, V. A. *see* **Baranovskiĭ, V. Yu., 97j:20044**
Holt, Derek F. (*with* Rees, Sarah) Free quotients of finitely presented groups. (English summary) **97m:20059**
Kkhatib, A. On subgroups of a split orthogonal group over a commutative ring. (Russian. Russian summary) **97a:20080**
Korobov, Aleksei A. Characterization of dilatations expressible as a product of independent simple transformations. (English summary) **97g:20054**
Plotkin, Eugene Boris *see* **Vavilov, N. A., 97h:20056**
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Satarov, Zh. S. Defining relations of classical orthogonal groups over commutative local rings. (Russian) **97d:20059**
Tran Ngoc Hoi *see* **Bui Xuan Hai, 97a:20079**
Vavilov, N. A. (*with* Plotkin, Eugene Boris) Chevalley groups over commutative rings. I. Elementary calculations. (English summary) **97h:20056**
You, Hong Sylow subgroups of classical groups over finite commutative rings. (Chinese. English and Chinese summaries) **97f:20058**
Zha, Jianguo Determination of homomorphisms between linear groups of the same degree over division rings. (English summary) **97c:20073**

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Marciniak, Zbigniew S. (*with* Sehgal, Sudarshan K.) Finite matrix groups over nilpotent group rings. (English summary) **97b:20006**
Morishita, Masanori (*with* Watanabe, Takao) A note on the mean value theorem for special homogeneous spaces. **97h:11042**
Nan, Ji Zhu (*with* Zhang, Yong Zheng) The triangular factorization for elements of $GL_n(R)$ over φ-surjective rings. (English and Chinese summaries) **97f:15027**
Rohlfs, Jürgen Projective limits of locally symmetric spaces and cohomology. **97g:20049**
Sehgal, Sudarshan K. *see* **Marciniak, Zbigniew S., 97b:20006**
Watanabe, Takao *see* **Morishita, Masanori, 97h:11042**
Zhang, Yong Zheng *see* **Nan, Ji Zhu, 97f:15027**

20G40 Linear algebraic groups over finite fields

Cabanes, Marc (*with* Enguehard, Michel) Local methods for blocks of reductive groups over a finite field. **97m:20060**
Di Martino, Lino (*with* Vavilov, N. A.) $(2,3)$-generation of $SL(n,q)$. II. Cases $n \geq 8$. **97e:20067**
Earnest, A. G. *see* **Ishibashi, Hiroyuki, 97d:20061**
Ellers, Erich W. Products of reflections in one conjugacy class in the orthogonal group over GF(3). (English summary) **97d:20060**
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Hrushovski, Ehud (*with* Pillay, Anand) Definable subgroups of algebraic groups over finite fields. **97f:20059**
Ishibashi, Hiroyuki (*with* Earnest, A. G.) Addendum: "Two-element generation of orthogonal groups over finite fields" [J. Algebra **165** (1994), no. 1, 164–171; MR 95b:20069]. **97d:20061**
Liebeck, Martin W. Characterization of classical groups by orbit sizes on the natural module. **97e:20068**
Liu, Shao Ping A class of maximal solvable subgroups of the generalized simple group ${}^2D_n$ of Lie type. (Chinese. English and Chinese summaries) **97d:20062**
Pillay, Anand *see* **Hrushovski, Ehud, 97f:20059**
Putcha, Mohan S. Monoid Hecke algebras. (English summary) **97k:20080**
Vavilov, N. A. *see* **Di Martino, Lino, 97e:20067**
Wan, Zhe Xian Survey on geometry of classical groups over finite fields and its applications. (*see* **97m:20002**)
Zabric, Eva Hall polynomials for symplectic groups. II. (English summary) **97e:20069**

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Aburto-Hageman, Luisa Green's formula for $SL(2,k)$. **97h:20051**
An, Jianbei Dade's conjecture for Chevalley groups $G_2(q)$ in non-defining characteristics. (English summary) **97i:20016**
Angel, Jeff Finite upper half planes over finite fields. (English summary) **97d:11185**
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(Cabanes, Marc) *see* **Finite reductive groups, 97i:20001**
Campbell, H. E. A. (*with* Hughes, I. P.) 2-dimensional vector invariants of parabolic subgroups of $Gl_2(\mathbf{F}_p)$ over the field $\mathbf{F}_p$. (English summary) **97g:13007**
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(Carlisle, D.) *see* **Chu, Huah, 97h:12014**
Carlson, Jon F. Modules over group algebras. **97m:20011**
Chu, Huah Supplementary note on: "Rational invariants of certain orthogonal and unitary groups" [Bull. London Math. Soc. **24** (1992), no. 1, 57–60; MR 92m:12011] by D. Carlisle and P. H. Kropholler. **97h:12014**

Darafsheh, M. R. On the p-Steinberg characters of some finite simple groups. (English summary) **97j:20015**
Dowd, Michael F. (*with* Sin, Peter) On representations of algebraic groups in characteristic two. **97c:20066**
— On the 1-cohomology of finite groups of Lie type. (English summary) **97k:20076**
Evans, Ronald Spherical functions for finite upper half planes with characteristic 2. (English summary) **97i:11119**
Hughes, I. P. *see* **Campbell, H. E. A., 97g:13007** *and* **97h:13003**
Jost, Thomas Morita equivalence for blocks of finite general linear groups. **97f:20016**
Katz, Nicholas M. A note on exponential sums. **97i:11120**
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(Kropholler, Peter H.) *see* **Chu, Huah, 97h:12014**
Kwon, Sae Ran On the partition of unipotent radicals of parabolic subgroups in Chevalley groups. (English summary) **97m:17012**
Li, Wen-Ch'ing Winnie Number-theoretic constructions of Ramanujan graphs. (English summary) **97i:11118**
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Ohmori, Zyozyu The Schur indices of the cuspidal unipotent characters of the finite unitary groups. **97i:20018**
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Pei, Ding Yi (*with* Wang, Xueli) Authentication-secrecy code based on conics over finite fields. (English summary) **97m:94018**
Schmutz, Eric The order of a typical matrix with entries in a finite field. (English summary) **97e:15011**
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Shōji, Toshiaki Irreducible characters of finite Chevalley groups. (Japanese) **97k:20072**
Sin, Peter *see* **Dowd, Michael F., 97c:20066**
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Soto-Andrade, Jorge *see* **Pantoja, José, 97j:20043**
Tiep, Pham Huu (*with* Zalesskiĭ, A. E.) Minimal characters of the finite classical groups. (English summary) **97f:20018**
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Wang, Xueli *see* **Pei, Ding Yi, 97m:94018**
Zalesskiĭ, A. E. *see* **Tiep, Pham Huu, 97f:20018**
Zyulyarkina, N. D. (*with* Makhnëv, A. A.) Cyclic TI-subgroups of order 4 in exceptional Chevalley groups. (Russian. English and Russian summaries) **97h:20019**

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Finite reductive groups ★ Finite reductive groups. **97i:20001**
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Guivarc'h, Yves *see* **Gol'dsheĭd, I. Ya., 97f:60019**
Huang, Wenxue (*with* Renner, Lex E.) The normalizer and centralizer of a maximal torus in a linear associative algebra. (English summary) **97f:16038**
Kumar, Shrawan The nil Hecke ring and singularity of Schubert varieties. **97a:14052**
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Renner, Lex E. *see* **Huang, Wenxue, 97f:16038**
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20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Katok, Svetlana Coding of closed geodesics after Gauss and Morse. (English summary) **97j:20045**
Krstić, Sava (*with* McCool, James) Free quotients of $SL_2(R[x])$. (English summary) **97g:20055**
Leal, G. The congruence subgroup theorem and units of symmetric group rings. (English summary) (*see* **97c:16001**)
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McCool, James *see* **Krstić, Sava, 97g:20055**
You, Hong Remarks on stable range for matrices. (English summary) **97h:20057**

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Lubotzky, Alexander Subgroup growth. **97k:20048**

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

Anderson, James W. (*with* Reid, Alan W.) Commensurability of Fuchsian groups and their axes. **97i:20059**
Beardon, Alan F. Some remarks on non-discrete Möbius groups. (English summary) **97d:20063**
Cangül, I. N. The group structure of Hecke groups $H(\lambda_q)$. (English and Turkish summaries) **97c:20074**
Chetiya, Buddha Prasad (*with* Patra, Kuntala) K-metacyclic groups of automorphisms of compact Riemann surfaces. (English summary) **97d:20064**
Dai, Bin Lin (*with* Wang, Jian[1]) Inequalities for discrete Möbius groups. (Chinese. English and Chinese summaries)
Dunwoody, M. J. (*with* Sageev, Michah) Splittings of certain Fuchsian groups. (English summary) **97i:20060**
Gilman, Jane Two-generator discrete subgroups of $PSL(2, \mathbf{R})$. (English summary) **97a:20082**
Gromadzki, Grzegorz Metabelian groups acting on compact Riemann surfaces. (English summary) **97b:20071**
James, Donald G. (*with* Maclachlan, C.) Fuchsian subgroups of Bianchi groups. (English summary) **97i:20061**
Kuusalo, T. *see* **Näätänen, M., 97i:20062**
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Näätänen, M. (*with* Kuusalo, T.) On arithmetic genus 2 subgroups of triangle groups. (English summary) **97i:20062**
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Reid, Alan W. *see* **Anderson, James W., 97i:20059**
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Chetiya, Buddha Prasad (*with* Dutta, Sanjay Kumar; Patra, Kuntala) On the existence of two-generator finite solvable groups with short derived series. (English summary) **97c:20025**
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Costa, Antonio F. *see* **Broughton, S. A.; et al., 97e:14043** *and* **Bujalance, E.; et al., 97i:57014**
Dutta, Sanjay Kumar *see* **Chetiya, Buddha Prasad; et al., 97c:20025** *and* **97m:30060**
Fang, Ai Nong (*with* Jiang, Yue Ping; Fang, Ming[1]) On groups of Clifford matrices and Lie groups. (English summary) **97i:22004**
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Gehring, F. W. (*with* Martin, Gaven J.) On the Margulis constant for Kleinian groups. I. (English summary) **97f:30065**
Gromadzki, Grzegorz On the order of a group of automorphisms of a compact bordered Klein surface. **97m:30063**
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Hidalgo, Rubén A. A commutator rigidity for Kleinian groups. (English summary) **97b:30058**
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Krammer, Daan An example of an arithmetic Fuchsian group. **97i:11041**
Lafuente López, Javier *see* **Bujalance, E.; et al., 97i:57014**
Martin, Gaven J. Triangle subgroups of Kleinian groups. (English summary) **97g:57016**
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20H15 Other geometric groups, including crystallographic groups [see also 51–XX, especially 51F15, and 82D25]

Araujo, José O. (*with* Gamondi, Rubén M.) Generators and relations in finite groups. (Spanish) **97e:20070**
Aroyo, M. I. (*with* Wondratschek, H.) Crystallographic viewpoints in the classification of space-group representations. (English summary) **97c:20075**
Gamondi, Rubén M. *see* **Araujo, José O., 97e:20070**

Jablan, Slavik V. Pawley multiple antisymmetry three-dimensional space groups $G_3^{L\phi'}$. I. Symmorphic groups. (English summary) **97b:20072**
— Theory of multiple antisymmetry. (English summary) **97c:20076**
Kramer, Peter Space groups on the quantum torus. (English summary) **97b:20073**
Litvin, Daniel B. Maximal subgroups of magnetic space groups and subperiodic groups. (English summary)
Prok, I. Fundamental tilings with marked cubes in spaces of constant curvature. **97i:20063**
Szczepański, Andrzej Holonomy groups of five-dimensional Bieberbach groups. (English summary) **97e:20071**
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Zha, Jianguo The crystallographic groups associated with infinite classical Weyl groups. (English summary) **97h:20058**

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Beardon, Alan F. ★ The geometry of discrete groups. (English summary) **97d:22011**
Cliff, Gerald (*with* Zheng, Hongliu) Torsion-free space groups, 2-cohomology, and Scott modules. (English summary) **97c:20077**
Dekimpe, Karel (*with* Malfait, Wim) Affine structures on a class of virtually nilpotent groups. (English summary) **97j:57060**
Jablan, Slavik V. Curves generated by mirror reflections. (English summary) **97c:52044**
Köhler, A. E. Deformations, isosymmetric manifolds, and higher-dimensional form space symmetries for point ensembles (polygonal forms) under O(2) symmetry. I. Two and three points. (English summary) **97b:52025**
Kramer, Peter (*with* Papadopolos, Z.; Zeidler, D.) Concepts of symmetry in quasicrystals: root lattice D_6, icosahedral group, etc. **97a:52040**
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Lorente, Miguel (*with* Kramer, Peter) Non-Euclidean crystallography. (English summary) **97e:82049**
Malfait, Wim *see* **Dekimpe, Karel, 97j:57060**
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Moody, R. V. Meyer sets and the finite generation of quasicrystals. (English summary) **97c:52048**
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Rossetti, J. P. (*with* Tirao, P. A.) Compact flat manifolds with holonomy group $Z_2 \oplus Z_2$. (English summary) **97b:57032**
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Velani, Sanju L. Geometrically finite groups, Khintchine-type theorems and Hausdorff dimension. **97h:11084**
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Zeidler, D. *see* **Kramer, Peter; et al., 97a:52040**
Zheng, Hongliu *see* **Cliff, Gerald, 97c:20077**

20H20 Other matrix groups over fields

Guan, Keying (*with* Zhang, Shaofei) Structure of solvable subgroup of $SL(2, \mathbf{C})$ and integrability of Fuchsian equations on torus T^2. (English summary) **97g:20056**
Li, Chi-Kwong (*with* Whitney, Wayne) Closed symmetric overgroups of S_n in O_n. (English summary) **97g:20057**
Puglisi, Orazio Sylow subgroups of finitary linear groups. (English summary) **97k:20081**
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Guerrero, Berenice Subgroups of the group ST(3) and measure of subspaces of the projective plane. (Spanish. Spanish summary) **97b:53061**
Leinen, Felix Irreducible representations of periodic finitary linear groups. **97c:20060**

20H25 Other matrix groups over rings

Bartolozzi, Federico Finitary unitary groups and the Dieudonné conjecture. (Italian. English summary) **97d:20065**
Berrick, A. J. (*with* Boey, K. L.; Leung, Ka Hin) Row versus column operations. **97g:20058**
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Bryukhanov, O. V. Genetics of universal Chevalley groups over some commutative rings. (Russian. Russian summary) **97h:20059**
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20H30 Other matrix groups over finite fields

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Murray, Scott H. (*with* O'Brien, E. A.) Selecting base points for the Schreier-Sims algorithm for matrix groups. (English summary) **97c:20003**
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Terras, Audrey Survey of spectra of Laplacians on finite symmetric spaces. (English summary) **97m:11154**
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20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Adem, Alejandro Automorphisms and cohomology of discrete groups. **97e:20072**
Brady, Thomas Free resolutions for certain metacyclic groups. **97j:20046**
Choi, Eun Mi On group extensions and representations. (English summary)
Cliff, Gerald (*with* Zheng, Hongliu) Torsion-free space groups, 2-cohomology, and Scott modules. (English summary) **97c:20077**
Dror Farjoun, Emmanuel (*with* Jekel, Solomon M.; Suciu, Alexander I.) Homology of jet groups. **97g:20060**
Ellis, Graham Capability, homology, and central series of a pair of groups. **97d:20067**
Glover, H. H. (*with* Leary, Ian J.; Thomas, C. B.) The Yagita invariant of general linear groups. **97j:20047**
Green, David John (*with* Leary, Ian J.) The spectrum of the Chern subring. (*see* **97k:20003**)
Inassaridze, Niko Nonabelian tensor products and nonabelian homology of groups. (English summary) **97j:20048**
Jekel, Solomon M. *see* **Dror Farjoun, Emmanuel; et al., 97g:20060**
Kochloukova, Dessislava H. The FP_m-conjecture for a class of metabelian groups. (English summary) **97j:20049**
Kropholler, Peter H. (*with* Thomas, Simon R.) The consistency of Holt's conjectures on cohomological dimension of locally finite groups. **97k:20082**
Kuz'min, Yu. V. Groups of knotted compact surfaces, and central extensions. (Russian. Russian summary) **97g:20061**
Leary, Ian J. *see* **Glover, H. H.; et al., 97j:20047** *and* **Green, David John, (97k:20003)**
Lee, Chun-Nip Farrell cohomology and centralizers of elementary abelian p-subgroups. **97b:20074**
Opolka, Hans The lifting problem in group cohomology. (English summary) **97d:20068**
Pham Anh Minh Group homomorphisms inducing mod-p cohomology monomorphisms. (English summary) **97i:20064**
Schneiderer, Claus Farrell cohomology and Brown theorems for profinite groups. (English summary) **97j:20050**
Suciu, Alexander I. *see* **Dror Farjoun, Emmanuel; et al., 97g:20060**
Surowski, David B. Remarks on poset homology and an important aspect of the Quillen conjecture. (Chinese. English and Chinese summaries) **97j:20051**
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Thomas, C. B. *see* **Glover, H. H.; et al., 97j:20047**
Thomas, Simon R. An independence result in group cohomology. **97b:20075**
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Zheng, Hongliu *see* **Cliff, Gerald, 97c:20077**

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Arlettaz, Dominique (*with* Zelewski, Piotr M.) Linear group homology properties of the inclusion of a ring of integers into a number field. **97d:19005**
Baues, Hans-Joachim Non-abelian extensions and homotopies. (English summary) **97c:55011**
Bestvina, Mladen Local homology properties of boundaries of groups. **97h:57022**
Carlson, Jon F. ★ Modules and group algebras. **97c:20013**
Catbelineau, Jean-Louis Birapport et groupoïdes. [Cross ratio and groupoids] **97c:51001**
Cleary, Sean Groups of piecewise-linear homeomorphisms with irrational slopes. (English summary) **97d:20040**
Elbaz-Vincent, Philippe Homology of the special linear group and K-theory. (English and French summaries) **97b:19001**
Feshbach, Mark Transfer for Hopf algebras. **97i:16032**
Greenberg, Peter (*with* Sergiescu, Vlad) Piecewise projective homeomorphisms and a noncommutative Steinberg extension. (English summary) **97c:57037**
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Hilton, Peter (*with* Stammbach, U.) ★ A course in homological algebra. **97k:18001**
Kilgour, C. W. (*with* Pride, S. J.) Cockcroft presentations. (English summary) **97b:20044**
Kropholler, Peter H. (*with* Roller, Martin A.) Remarks on a theorem of Swarup on ends of pairs of groups. (English summary) **97c:20062**
Lee, Soo Teck (*with* Packer, Judith A.) The cohomology of the integer Heisenberg groups. (English summary) **97k:22014**
Muranov, Yu. V. K-groups of quadratic extensions of rings. (Russian. Russian summary) **97b:16013**
Packer, Judith A. *see* **Lee, Soo Teck, 97k:22014**
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Rickard, Jeremy Splendid equivalences: derived categories and permutation modules. (English summary) **97b:20011**
Roller, Martin A. *see* **Kropholler, Peter H., 97c:20062**
Schmidt, Alexander Bounded defect in partial Euler characteristics. **97c:20042**
Sergiescu, Vlad *see* **Greenberg, Peter, 97c:57037**
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Stark, Christopher W. Resolutions modeled on ternary trees. (English summary) **97e:57002**
(Suter, Ruedi) *see* **Carlson, Jon F., 97c:20013**
Swarup, G. A. On the cut point conjecture. (English summary) **97f:20048**
Thomas, C. B. 3-manifolds and PD(3)-groups. **97c:57014**
Yagita, Nobuaki Note on the spectral sequence converging to cohomology of an extra special p-group for odd prime p. **97c:55031**
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20J06 Cohomology of finite groups

Carlson, Jon F. The cohomology of groups. **97j:20052**
Chin, Angelina The cohomology rings of some p-groups. (English summary) **97c:20078**
Dowd, Michael F. On the 1-cohomology of the groups $SL_4(2^n)$, $SU_4(2^n)$, and $Spin_7(2^n)$. (English summary) **97f:20061**
Flannery, D. L. Calculation of cocyclic matrices. (English summary) **97f:20062**
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Milgram, R. James (*with* Tezuka, Michishige) The geometry and cohomology of M_{12}. II. **97f:20064**
Pham Anh Minh The mod p cohomology group of extra-special p-group of order p^5 and of exponent p^2. **97b:20076**
Sanada, Katsunori Remarks on cohomology rings of the quaternion group and the quaternion algebra. (English summary) **97a:20083**
Siegel, Stephen F. On the cohomology of split extensions of finite groups. (English summary) **97h:20061**
Tezuka, Michishige (*with* Yagita, Nobuaki) On odd prime components of cohomologies of sporadic simple groups and the rings of universal stable elements. **97e:20073**
— *see also* **Milgram, R. James, 97f:20064**
Totaro, Burt Cohomology of semidirect product groups. **97f:20065**
Yagita, Nobuaki *see* **Tezuka, Michishige, 97e:20073**

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Benson, David John Decomposing the complexity quotient category. **97f:20007**
— (*with* Carlson, Jon F.; Rickard, Jeremy) Complexity and varieties for infinitely generated modules. II. **97f:20008**
Burichenko, V. P. (*with* Kleshchev, A. S.; Martin, Stuart) On cohomology of dual Specht modules. (English summary) **97g:20018**
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Cohen, F. R. (*with* Harper, J. R.; Levi, Ran) On the homotopy theory associated to certain finite groups of 2-rank two. **97a:55012**
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Hayat-Legrand, Claude (*with* Legrand, A.) Whitehead Γ functor and homotopy. (English summary) **97c:55009**
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Leary, Ian J. A bound on the exponent of the cohomology of BC-bundles. **97k:55018**
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Levi, Ran *see* **Cohen, F. R.; et al., 97a:55012**
Martin, Stuart *see* **Burichenko, V. P.; et al., 97g:20018**
Nakano, Daniel K. Complexity and support varieties for finite-dimensional algebras. (English summary) **97c:17031**
Nguyễn Hữ'u Việt Hu'ng (*with* Pham Anh Minh) The action of the mod p Steenrod operations on the modular invariants of linear groups. (English summary) **97c:55027**
Pham Anh Minh *see* **Nguyễn Hữ'u Việt Hu'ng, 97c:55027**
Rickard, Jeremy *see* **Benson, David John; et al., 97f:20008**
Wang, Moon-Ok A note on the projective representations of a finite group. **97g:20017**

20J10 Groups arising as cohomology groups

Items with secondary classifications in 20J10

Guba, V. S. (*with* Pride, S. J.) Low-dimensional (co)homology of free Burnside monoids. (English summary) **97e:20075**
Pride, S. J. *see* **Guba, V. S., 97e:20075**

20J15 Category of groups

Items with secondary classifications in 20J15

Berrick, A. J. (*with* Tan, G. C.) The minimal extension of P-localization on groups. **97b:20048**
Peschke, Georg Localization and genus in group theory and homotopy theory. **97g:55014**
Tan, G. C. *see* **Berrick, A. J., 97b:20048**

20J99 None of the above, but in this section

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Singer, William M. On the minimality of Anick's resolution, with application to an algebra of cohomology operations. **97d:18015**

20Kxx Abelian groups

(Mikhalëv, A. V.) *see* **Abelian groups and modules, 97b:20077**

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Abelian groups and modules ★ Абелевы группы и модули. Вып. 11, 12. (Russian) [Abelian groups and modules. No. 11, 12] **97b:20077**

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(Arnold, David M.) *see* **Abelian groups and modules, 97d:20002**
(Rangaswamy, Kulumani M.) *see* **Abelian groups and modules, 97d:20002**

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20K01 Finite abelian groups

Amin, Khalid *see* **Szabó, Sándor, 97h:20062**
Chapman, Scott T. (*with* Geroldinger, Alfred) On cross numbers of minimal zero sequences. (English summary) **97k:20083**
Ericson, Thomas H. E. *see* **Zinov'ev, V. A., 97m:20062**
Gao, Wei Dong Addition theorems and group rings. (English summary) **97j:20053**
Geroldinger, Alfred (*with* Schneider, Rudolf) The cross number of finite abelian groups. III. (English summary) **97i:20065**
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Gica, Alexandru A numerical test for the isomorphism of two finite abelian groups.
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Szabó, Sándor (*with* Amin, Khalid) Factoring abelian groups of order p^4. (English summary) **97h:20062**
— Multiple simulated factorizations. (English summary) **97g:20062**
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Gao, Wei Dong On zero-sum subsequences of restricted size. (English summary) **97m:11027**
Hamidoune, Yahya Ould On weighted sequence sums. (English summary) **97a:11026**
— (*with* Zémor, Gilles) On zero-free subset sums. **97k:11023**
Johnson, Jeremy R. *see* **Auslander, L.; et al., 97k:65301**
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Meijer, A. R. Groups, factoring, and cryptography. **97k:94036**
Paulus, Sachar *see* **Buchmann, Johannes A., 97a:11202**
Schmidt, Roland Lattice embeddings of abelian prime power groups. (English summary) **97k:20037**
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20K05 Finitely generated groups

Lin, Hong Some notes on $\mathcal{T}$-isomorphisms and $\mathcal{T}$-exactness. (Chinese. English and Chinese summaries)

20K10 Torsion groups, primary groups and generalized primary groups

Hill, Paul Almost coproducts of finite cyclic groups. (English summary) **97a:20084**
— (*with* Ullery, William) Almost totally projective groups. **97g:20063**
Keef, Patrick Primary abelian groups admitting only small homomorphisms. **97e:20074**
— Abelian groups and the torsion product. **97g:20064**
Moskalenko, Aza Irmovna On pure completely characteristic subgroups of a coperiodic group. (Russian. Russian summary) **97c:20079**
Richman, Fred Growing forests in abelian p-groups. **97k:20084**
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Fuchs, László[1] Simply presented torsion modules over valuation domains. **97m:13021**
Richman, Fred Intuitionistic abelian group theory. **97k:20094**

20K15 Torsion free groups, finite rank

Arnold, David M. Near isomorphism of Butler groups and representations of finite posets. (English summary) **97b:20078**
— (*with* Dugas, Manfred H.) A survey of Butler groups and the role of representations. **97k:20085**
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Blagoveshchenskaya, E. Direct decompositions of almost completely decomposable abelian groups. (English summary) **97g:20065**
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De Vivo, Clorinda (*with* Metelli, Claudia) $\mathcal{B}^{(1)}$-groups: some counterexamples. (*see* **97d:20002**)
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Dugas, Manfred H. *see* **Arnold, David M., 97k:20085**
Flesher, T. M. On the structure of strongly indecomposable fps-groups. (Russian. Russian summary) **97c:20080**
Goeters, H. Pat Homogeneous groups. (English summary) **97f:20067**
— Extensions of finitely faithful S-groups. **97g:20066**
Lehrmann, Stephan (*with* Mutzbauer, Otto) Eine Butlergruppe mit Regulatorkette der Länge 2. (English summary) [A Butler group with regulator chain of length 2] **97k:20087**
Mader, Adolf Almost completely decomposable torsion-free abelian groups. **97b:20079**
— *see also* **Dittmann, U.; et al., 97k:20086**
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Albrecht, Ulrich (*with* Goeters, H. Pat) Flatness and the ring of quasi-endomorphisms. (English summary) **97g:20067**
Bekker, I. Kh. (*with* Shaposhnikova, E. V.) First cohomology groups over torsion-free abelian groups of rank 2. (Russian. Russian summary) **97c:20082**
— (*with* Krylov, P. A.; Chekhlov, A. R.) Torsion-free abelian groups that are close to algebraic compact groups. (Russian. Russian summary) (*see* **97b:20077**)
Bican, Ladislav Families of preseparative subgroups. (English summary) **97h:20065**
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— (*with* Rangaswamy, Kulumani M.) PB^{∞}-subgroups of Butler groups. (English summary) **97g:20069**
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Blass, Andreas R. (*with* Irwin, John M.) On the group of eventually divisible integer sequences. (English summary) **97g:20070**
Chekhlov, A. R. On torsion-free abelian QCS-groups. (Russian. Russian summary) (*see* **97b:20077**)
— *see also* **Bekker, I. Kh.; et al., (97b:20077)**
El Bashir, Robert (*with* Bican, Ladislav) Remarks on B_2-groups. (English summary) **97k:20088**
Göbel, Rüdiger (*with* Shelah, Saharon) G.C.H. implies existence of many rigid almost free abelian groups. **97k:20089**
Goeters, H. Pat An extension of Warfield duality for abelian groups. **97a:20087**
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Shaposhnikova, E. V. *see* **Bekker, I. Kh., 97c:20082**
Shelah, Saharon *see* **Göbel, Rüdiger, 97k:20089**
Vinsonhaler, C. A survey of balanced Butler groups and representations. **97k:20091**
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Faticoni, Theodore G. (*with* Goeters, H. Pat; Vinsonhaler, C.; Wickless, William J.) Torsion-free duality is Warfield. (English summary) **97f:20071**
Goeters, H. Pat *see* **Faticoni, Theodore G.; et al., 97f:20071**
O'Neill, John D. Summable subsets of direct products of infinite cyclic groups. **97k:20092**
Vinsonhaler, C. *see* **Faticoni, Theodore G.; et al., 97f:20071**
Wickless, William J. *see* **Faticoni, Theodore G.; et al., 97f:20071**

20K21 Mixed groups

Albrecht, Ulrich (*with* Hausen, Jutta) Mixed abelian groups with the summand intersection property. **97j:20055**
Files, Steve T. On transitive mixed abelian groups. **97j:20056**
Fomin, A. A. (*with* Wickless, William J.) Categories of mixed and torsion-free finite rank abelian groups. **97e:20083**
Hausen, Jutta *see* **Albrecht, Ulrich, 97j:20055**
Krylov, P. A. (*with* Podberezina, E. I.) The structure of mixed abelian groups with Noetherian endomorphism rings. (Russian. Russian summary) (*see* **97b:20077**)
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Protasov, I. V. Asymmetrically decomposable abelian groups. (Russian) **97e:20084**
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Wickless, William J. Functors from locally completely decomposable groups to mixed groups. (English summary) **97j:20057**
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20K25 Direct sums, direct products, etc.

Blass, Andreas R. (*with* Irwin, John M.; Schlitt, Greg) Some abelian groups with free duals. (English summary) **97f:20070**
Irwin, John M. *see* **Blass, Andreas R.; et al., 97f:20070**
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Hausen, Jutta *see* **Albrecht, Ulrich, 97j:20055**
Khusainov, A. A. Non-lim-acyclic sums of copies. (Russian. Russian summary) **97h:20067**
Nongxa, Loyiso G. (*with* Rangaswamy, Kulumani M.; Vinsonhaler, C.) Balanced subgroups of completely decomposable groups. **97h:20066**
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Vinsonhaler, C. *see* **Nongxa, Loyiso G.; et al., 97h:20066**

20K27 Subgroups

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Mader, Adolf *see* **Dittmann, U.; et al., 97k:20086**
Mutzbauer, Otto *see* **Dittmann, U.; et al., 97k:20086**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Antonova, N. Yu. *see* **Sebel'din, A. M., (97b:20077)**
Chung, Jae Myung On regular groups over their endomorphism rings. (English summary) **97f:20067**
Files, Steve T. (*with* Wickless, William J.) The Baer-Kaplansky theorem for a class of global mixed groups. **97g:20071**
Makukhina, L. N. (*with* Sebel'din, A. M.) Definability of vector groups by their endomorphism semigroups. (Russian. Russian summary) (*see* **97b:20077**)
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— (*with* Goeters, H. Pat) Flatness and the ring of quasi-endomorphisms. (English summary) **97g:20067**
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Files, Steve T. On transitive mixed abelian groups. **97j:20056**
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Hausen, Jutta *see* **Albrecht, Ulrich, 97j:20055**

Irwin, John M. *see* **Blass, Andreas R.; et al., 97f:20070**
Krempa, Jan Rings with periodic unit groups. (English summary) **97a:16067**
Schlitt, Greg *see* **Blass, Andreas R.; et al., 97f:20070**
Schultz, Phillip The near endomorphism ring of an almost completely decomposable group. (English summary) **97b:20080**

20K35 Extensions

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Benabdallah, Khalid (*with* Ouldbeddi, M. A.) On finite essential extensions of torsion free abelian groups. (English summary) **97h:20063**
Goeters, H. Pat Extensions of finitely faithful S-groups. **97g:20066**
Ouldbeddi, M. A. *see* **Benabdallah, Khalid, 97h:20063**

20K40 Homological and categorical methods

Faticoni, Theodore G. (*with* Goeters, H. Pat; Vinsonhaler, C.; Wickless, William J.) Torsion-free duality is Warfield. (English summary) **97f:20071**
Goeters, H. Pat *see* **Faticoni, Theodore G.; et al., 97f:20071**
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Krylov, P. A. When is the extension group $\mathrm{Ext}(A, B)$ torsion-free? (Russian) **97m:20063**
Vinsonhaler, C. *see* **Faticoni, Theodore G.; et al., 97f:20071**
Wickless, William J. Functors from locally completely decomposable groups to mixed groups. (English summary) **97j:20057**
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20K45 Topological methods [see also 22A05, 22B05]

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Mutzbauer, Otto (*with* Schäfer, Helmut) Local completions of torsion-free p-adic modules. (English summary) **97i:20066**
Schäfer, Helmut *see* **Mutzbauer, Otto, 97i:20066**

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Richman, Fred Intuitionistic abelian group theory. **97k:20094**

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Danchev, P. V. Commutative group algebras of σ-summable abelian groups. (English summary) **97k:20011**
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20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05.}

20L05 General theory

Vasantha Kandasamy, W. B. On ordered groupoids and its groupoid rings. (English summary)

20L15 Connections with topology

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20L99 None of the above, but in this section

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20Mxx Semigroups

Items with secondary classifications in 20Mxx

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(Mislove, Michael W.) *see* **Semigroup theory and its applications, 97g:20002**

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20M05 Free semigroups, generators and relations, word problems

Ajan, K. S. (*with* Pastijn, Francis) Finitely presented groups and completely regular semigroups. (English summary) **97c:20085**
Campbell, Colin M. (*with* Robertson, Edmund F.; Ruškuc, N.; Thomas, Richard M.; Ünlü, Yusuf) Certain one-relator products of semigroups. **97a:20090**
— (*with* Robertson, Edmund F.; Ruškuc, N.; Thomas, Richard M.) On subsemigroups and ideals in free products of semigroups. (English summary) **97g:20072**
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do Lago, Alair Pereira On the Burnside semigroups $x^n - x^{n+m}$. (English summary) **97k:20096**
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Rosales, J. C. (*with* Urbano-Blanco, J. M.) A deterministic algorithm to decide if a finitely presented abelian monoid is cancellative. (English summary) **97i:20069**
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Ruškuc, N. *see* **Campbell, Colin M.; et al., 97a:20090; 97g:20072** *and* **97h:20068**
Sapir, M. V. Eventually $\mathscr{D}$-related sets and systems of equations over finite semigroups and rings. (English summary) **97e:20077**
— *see also* **Hall, T. E., 97h:20070**
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Thomas, Richard M. *see* **Campbell, Colin M.; et al., 97a:20090; 97g:20072** *and* **97h:20068**
Ünlü, Yusuf *see* **Campbell, Colin M.; et al., 97a:20090**
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Zhang, Louxin Rewriting methods and decision problems for special monoids. (English summary) **97b:20083**
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Almeida, Jorge (*with* Weil, Pascal) Free profinite semigroups over semidirect products. (Russian) **97e:20078**
Anselmo, Marcella (*with* Restivo, Antonio) On languages factorizing the free monoid. (English summary) **97g:68120**
Crabb, M. J. (*with* McGregor, C. M.; Munn, W. D.; Wassermann, S.) On the algebra of a free monoid. (English summary) **97i:20079**
Durnev, V. G. The undecidability of the positive $\forall\exists^3$ theory of a free semigroup. (Russian. Russian summary) **97e:03065**
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Fouché, Willem L. Unavoidable regularities and factor permutations of words. (English summary) **97f:05020**
Galovich, Jennifer (*with* White, Dennis) Recursive statistics on words. (English and French summaries) **97j:05016**
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Kuich, Werner *see* **Honkala, Juha, 97f:68094**
Laloude, Pierre Lyndon heaps: an analogue of Lyndon words in free partially commutative monoids. (English summary) **97e:05034**
Lavers, T. G. The monoid of ordered partitions of a natural number. (English summary) **97b:20093**
McGregor, C. M. *see* **Crabb, M. J.; et al., 97i:20079**
Munn, W. D. *see* **Crabb, M. J.; et al., 97i:20079**
Narbel, Philippe The boundary of iterated morphisms on free semi-groups. (English summary) **97b:68175**
Polák, Libor On hyperassociativity. (English summary) **97g:20074**
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20M07 Varieties of semigroups

Almeida, Jorge (*with* Weil, Pascal) Free profinite semigroups over semidirect products. (Russian) **97e:20078**
— (*with* Higgins, Peter M.) Monoids respecting n-chains of intervals. (English summary) **97j:20058**
Azevedo, Assis Extensions by means of local groups. (Russian) **97c:20087**
Denecke, Klaus (*with* Koppitz, Jörg) Pre-solid varieties of commutative semigroups. (English summary) **97b:20084**
— (*with* Marszałek, R.) Binary relations on monoids of hypersubstitutions. (English summary) **97m:20064**
Fountain, John B. (*with* Petrich, Mario) Orders in normal bands of groups. **97m:20065**
Guțan, Marin A problem on semigroups satisfying permutation identities. (English summary) **97d:20074**
Higgins, Peter M. *see* **Almeida, Jorge, 97j:20058**
Kopamu, Samuel J. L. On semigroup species. (English summary) **97h:20072**
Koppitz, Jörg *see* **Denecke, Klaus, 97b:20084**
Koryakov, I. O. Embeddings of pseudofree semigroups. (Russian) **97f:20075**
Koshelev, Yu. G. Lattice operations and multiplication of varieties of semigroups. (Russian) (*see* **97i:00004**)
Kulabukhov, S. Yu. Weakly free semigroups in disjunctive varieties. (Russian) (*see* **97i:00004**)
Margolis, Stuart W. Maximal pseudovarieties of finite monoids and semigroups. (Russian) **97e:20088**
Marszałek, R. *see* **Denecke, Klaus, 97m:20064**
Mashevitzky, Grigory The pseudovariety generated by completely 0-simple semigroups. (English summary) **97m:20066**
Pastijn, Francis The idempotents in a periodic semigroup. (English summary) **97i:20070**
— (*with* Volkov, Mikhael V.) Minimal noncryptic e-varieties of regular semigroups. (English summary) **97e:20079**
Petrich, Mario Identities without the star for $*$-bands. (English summary) **97h:20073**
— *see also* **Fountain, John B., 97m:20065**
Pin, Jean-Eric Finite semigroups as categories, ordered semigroups of compact semigroups. (English summary) **97m:20067**
— (*with* Weil, Pascal) Profinite semigroups, Mal'cev products, and identities. (English and French summaries) **97j:20059**
Polák, Libor On hyperassociativity. (English summary) **97g:20074**
Tishchenko, Aleksandr Vladimirovich (*with* Volkov, Mikhael V.) Characterization of varieties of semigroups of finite index in the language of "prohibited divisors". (Russian) **97d:20075**
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Trotter, P. G. (*with* Volkov, Mikhael V.) The finite basis problem in the pseudovariety joins of aperiodic semigroups with groups. **97a:20091**
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Wismath, S. L. Iterative hyperidentities for the $A_{n,m}$ varieties of semigroups. (English summary) **97e:20080**
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Kaďourek, Jiří On some existence varieties of locally inverse semigroups. **97i:20075**
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20M10 General structure theory

Adhikari, N. C. *see* **Dutta, Tapan Kumar**[1], **97d:20076**
Auinger, K. (*with* Hall, T. E.) Concepts of congruence, morphic image and substructure for biordered sets. (English summary) **97i:20071**
Bogdanović, Stojan (*with* Ćirić, Miroslav) Semilattices of weakly left Archimedean semigroups. (English summary) **97f:20076**
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— (*with* Ćirić, Miroslav) Decompositions of semigroups with zero. (English summary) **97c:20089**
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Inata, Isamu *see* **Imaoka, Teruo; et al., 97d:20078**
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Guo, Yongdong On the structure of left duo, conditionally commutative semigroups. (English summary) **97k:20102**
Guţan, Marin A problem on semigroups satisfying permutation identities. (English summary) **97d:20074**
Petrich, Mario Identities without the star for $*$-bands. (English summary) **97h:20073**
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20M11 Radical theory

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Sheng, De Cheng *see* **Zhang, Hong Fen, 97a:20096**
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20M12 Ideal theory

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Dasgupta, Utpal *see* **Dutta, Tapan Kumar[1]**
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Huang, Jun Min Primal semigroups. (Chinese. English and Chinese summaries) **97f:20079**
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Jun, Young Bae A note on ordered filters of implicative semigroups.
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Lee, Sang Keun (*with* Kwon, Young In) A generalization of the theorem of Giri and Wazalwar. (English summary)
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Xie, Xiang-Yun (*with* Wu, Ming-Fen) On the ideal extensions in ordered semigroups. **97i:20073**

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20M14 Commutative semigroups

Easdown, David (*with* Gould, Victoria) Commutative orders. (English summary) **97m:20069**
Geroldinger, Alfred (*with* Halter-Koch, Franz) On quasi divisor theories and systems of valuations. (English summary) **97a:20097**
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— Finite congruences on free commutative semigroups. (English summary) **97m:20070**
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Huang, Jun Min On (n, m)-commutative semigroups. (Chinese. English and Chinese summaries)
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Denecke, Klaus (*with* Koppitz, Jörg) Pre-solid varieties of commutative semigroups. (English summary) **97b:20084**
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Markov, Svetoslav M. On the foundations of interval arithmetic. **97h:65063**
Matsuda, Ryûki (*with* Sato, Iwao[2]) Note on star-operations and semistar-operations. **97f:13003**
Murphy, Gerard J. C^*-algebras generated by commuting isometries. (English summary) **97e:46074**
Rosales, J. C. (*with* Urbano-Blanco, J. M.) A deterministic algorithm to decide if a finitely presented abelian monoid is cancellative. (English summary) **97i:20069**
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Thoma, Apostolos Affine semigroup rings and monomial varieties. (English summary) **97c:20096**
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Wu, Ming-Fen *see* **Xie, Xiang-Yun, 97i:20073**
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20M15 Mappings of semigroups

Items with secondary classifications in 20M15

Wu, Ming-Fen *see* **Xie, Xiang-Yun, 97m:06010**
Xie, Xiang-Yun (*with* Wu, Ming-Fen) On po-semigroups containing no maximal ideals. (English summary) **97m:06010**

20M17 Regular semigroups

Almeida Santos, M. H. *see* **Blyth, T. S., 97a:20098** *and* **97h:20075**
Blyth, T. S. (*with* Almeida Santos, M. H.) Congruences associated with inverse transversals. (English summary) **97a:20098**
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— (*with* Pinto, G. A.) On ordered regular semigroups with biggest inverses. (English summary) **97m:20071**
Bogdanović, Stojan (*with* Ćirić, Miroslav) A note on left regular semigroups. (English summary) **97g:20076**
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Broeksteeg, Raymond E-solid e-varieties of regular semigroups which are biequational. (English summary) **97g:20077**
Ćirić, Miroslav *see* **Bogdanović, Stojan, 97g:20076**
Gao, Yan Ling *see* **Zhu, Pin Yu, 97f:20082**
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— On some existence varieties of locally orthodox semigroups. **97k:20103**
Kopamu, Samuel J. L. The concept of structural regularity. (English summary) **97j:20063**
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Petrich, Mario The kernel relation for a strict extension of certain regular semigroups. **97m:20072**
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Qin, Jing[2] *see* **Zhang, Yu Fen, 97k:20106**
Reilly, Norman R. (*with* Zhang, Shu Hua[1]) Operators and products in the lattice of existence. (English summary) **97e:20092a**
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Shin, Jong Moon A special decomposition of regular $*$-semigroups. (English summary) **97k:20105**
Shoji, Kunitaka Absolute flatness of regular semigroups with a finite height function. (English summary) **97a:20099**

Shum, Kar-Ping (*with* Guo, Yuqi) Regular semigroups and their generalizations. **97e:20088**
Stephen, J. B. The automorphism group of the graph of an $\mathscr{R}$ class. (English summary) **97f:20081**
Yamada, Miyuki Note on strongly $\mathscr{P}$-regular SLI-semigroups. (*see* **97a:20001**)
— Note on matrix compositions of monoids. (English summary) **97i:20077**
Yokoyama, Hiroaki *see* **Imaoka, Teruo; et al., 97j:20062**
Zhang, Chuan Zhi Group congruences on regular semigroups. (Chinese. English and Chinese summaries) **97a:20100**
Zhang, Mou Cheng (*with* Li, Yong Hua) The congruence classes of idempotents of a regular semigroup. (Chinese. English and Chinese summaries)
— *see also* **Li, Yong Hua**
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Zhang, Yu Fen (*with* Li, Shi Zheng) Semidirect products and wreath products of weakly Clifford quasiregular semigroups. (Chinese. English and Chinese summaries) **97a:20101**
— (*with* Qin, Jing[2]) Localization of π-inverse semigroups and its application. (Chinese. English and Chinese summaries) **97k:20106**
Zheng, Heng Wu (*with* Jiang, Tongsong) Green's relation $\mathscr{H}$ on $\mathscr{P}$-regular semigroups. (English and Chinese summaries)
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Zhu, Pin Yu (*with* Gao, Yan Ling) On the structure and classification of permutable orthogroups. (Chinese. English and Chinese summaries) **97f:20082**

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Auinger, K. (*with* Hall, T. E.) Concepts of congruence, morphic image and substructure for biordered sets. (English summary) **97i:20071**
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Hall, T. E. (*with* Sapir, M. V.) Idempotents, regular elements and sequences from finite semigroups. (English summary) **97h:20070**
— *see also* **Auinger, K., 97i:20071**
Huang, Wenxue Nilpotent algebraic monoids. **97a:20094**
Kopamu, Samuel J. L. On semigroup species. (English summary) **97h:20072**
Leech, Jonathan Recent developments in the theory of skew lattices. **97e:06013**
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20M18 Inverse semigroups

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Goberstein, Simon M. Inverse semigroups with isomorphic bundles of i-correspondences. (English summary) **97f:20083**
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Imaoka, Teruo (*with* Hall, T. E.) Amalgamation of generalized inverse $*$-semigroups. (English summary) (*see* **97a:20001**)
— Representations of generalized inverse $*$-semigroups. (English summary) **97c:20093**
— (*with* Inata, Isamu; Yokoyama, Hiroaki) Fundamental generalized inverse $*$-semigroups. (English summary) **97a:20102**
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20M19 Orthodox semigroups

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20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

Aoki, Kunimasa *see* **Saito, Tatsuhiko; et al., 97a:20108**
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Duplij, S. A. Some abstract properties of semigroups appearing in superconformal theories. (English summary) **97k:58005**
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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

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— Strongly faithful right S-acts. (Chinese. English and Chinese summaries) **97e:20092**
— Characterization of monoids by L-inverse left acts. (Chinese. English and Chinese summaries) **97f:20090**
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— Monoids over which all flat left acts are regular. (English summary) **97c:20097**
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20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Qxx, 68S05]

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Chen, Zhuo Rong Idempotence of semigroups of generalized circulant fuzzy matrices. (Chinese. English and Chinese summaries) **97g:15035**
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20M50 Connections of semigroups with homological algebra and category theory

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Gould, Victoria Graph expansions of right cancellative monoids. (English summary) **97k:20112**
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20M99 None of the above, but in this section

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20Nxx Other generalizations of groups

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20N05 Loops, quasigroups [see also 05Bxx]

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Berardi, Luigia (*with* Eugeni, Franco; Innamorati, Stefano) Remarks on hypergroupoids and cryptography. (English summary) **97f:94006**
Bukhshtaber, V. M. (*with* Vershik, A. M.; Evdokimov, S. A.; Ponomarenko, I. N.) Combinatorial algebras and multivalued involutive groups. (Russian. Russian summary) **97j:16045**
Eugeni, Franco *see* **Berardi, Luigia; et al., 97f:94006**
Evdokimov, S. A. *see* **Bukhshtaber, V. M.; et al., 97j:16045**
Innamorati, Stefano *see* **Berardi, Luigia; et al., 97f:94006**
Ponomarenko, I. N. *see* **Bukhshtaber, V. M.; et al., 97j:16045**
Vershik, A. M. *see* **Bukhshtaber, V. M.; et al., 97j:16045**

20P05 Probabilistic methods in group theory

Acciaro, Vincenzo The probability of generating some common families of finite groups. (English summary) **97c:20106**
Liebeck, Martin W. (*with* Shalev, Aner) Classical groups, probabilistic methods, and the (2, 3)-generation problem. (English summary) **97e:20106a**
— (*with* Shalev, Aner) Simple groups, probabilistic methods, and a conjecture of Kantor and Lubotzky. (English summary) **97e:20106b**
Shalev, Aner *see* **Liebeck, Martin W., 97e:20106a** *and* **97e:20106b**

22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Instructional exposition (textbooks, tutorial papers, etc.)

Onishchik, A. L. *see* **Vinberg, È. B., 97d:22001**
Simon, Barry ★ Representations of finite and compact groups. (English summary) **97c:22001**
Vinberg, É. B. (*with* Onishchik, A. L.) ★ Семинар по группам Ли и алгебраическим группам. (Russian. Russian summary) [A seminar on Lie groups and algebraic groups] **97d:22001**

Items with secondary classifications in 22–01

Bröcker, Theodor (*with* tom Dieck, Tammo) ★ Representations of compact Lie groups. (English summary) **97i:22005**
tom Dieck, Tammo *see* **Bröcker, Theodor, 97i:22005**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Analytic elements of Lie groups. (English summary) **97k:22017**
Lee, Dong Hoon[1] ★ Complex Lie groups and observability. **97f:22009**
Onishchik, A. L. ★ Топология транзитивных групп преобразований. (Russian. English and Russian summaries) [Topology of transitive transformation groups] **97j:57057**
Robinson, Derek W. *see* **ter Elst, A. F. M., 97k:22017**

22–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 22–02

Carter, R. W. (*with* Segal, Graeme; Macdonald, Ian G.) ★ Lectures on Lie groups and Lie algebras. (English summary) **97f:17002**
(Deart, D.) *see* **Ismagilov, R. S., 97g:22014**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Elliptic operators on Lie groups. (English summary) **97j:22026**
Ismagilov, R. S. ★ Representations of infinite-dimensional groups. **97g:22014**
Macdonald, Ian G. *see* **Carter, R. W.; et al., 97f:17002**
Omori, Hideki ★ Infinite-dimensional Lie groups. (English summary) **97k:22029**
Robinson, Derek W. *see* **ter Elst, A. F. M., 97j:22026**
Segal, Graeme *see* **Carter, R. W.; et al., 97f:17002**
(Taylor, Martin J.) *see* **Carter, R. W.; et al., 97f:17002**
Valette, Alain Can one hear the shape of a group? (English summary) **97i:22002**
Vignéras, Marie-France ★ Représentations l-modulaires d'un groupe réductif p-adique avec $l \neq p$. (French. English summary) [l-modular representations of a reductive p-adic group with $l \neq p$] **97g:22007**
Vogan, David A., Jr. The orbit method and unitary representations for reductive Lie groups. **97j:22036**

22–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 22–03

Knapp, Anthony W. Group representations and harmonic analysis. II. **97i:11002**

22–06 Proceedings, conferences, collections, etc.

(Baldoni, Welleda) *see* **Representations of Lie groups and quantum groups, 97h:22001**
(Picardello, Massimo A.) *see* **Representations of Lie groups and quantum groups, 97h:22001**

Items listed otherwise than by author

Congress:
Advances in Representation Theory of Lie Groups and Quantum Groups ★ Representations of Lie groups and quantum groups. **97h:22001**
Representations of Lie groups and quantum groups ★ Representations of Lie groups and quantum groups. **97h:22001**
School:
Group Theory ★ Representations of Lie groups and quantum groups. **97h:22001**
Trento ★ Representations of Lie groups and quantum groups. **97h:22001**

Items with secondary classifications in 22–06

(Jahren, Bjørn) *see* **Conference: Lie, Sophus, 97m:00029**
(Laudal, Olav Arnfinn) *see* **Conference: Lie, Sophus, 97m:00029**
(Lie, Sophus) *see* **Conference: Lie, Sophus, 97m:00029**
(Ørsted, Bent) *see* **Algebraic and analytic methods in representation theory, 97d:00014**
(Pollicott, Mark) *see* **Ergodic theory of $\mathbf{Z}^d$ actions, 97d:28001**
(Schlichtkrull, Henrik) *see* **Algebraic and analytic methods in representation theory, 97d:00014**
(Schmidt, Klaus) *see* **Ergodic theory of $\mathbf{Z}^d$ actions, 97d:28001**

Items listed otherwise than by author

Algebraic and analytic methods in representation theory ★ Algebraic and analytic methods in representation theory. **97d:00014**
Anniversary:
Birth of Lie, Sophus ★ The Sophus Lie Memorial Conference. **97m:00029**
Conference:
Lie, Sophus ★ The Sophus Lie Memorial Conference. **97m:00029**
Ergodic theory of $\mathbf{Z}^d$ actions ★ Ergodic theory of $\mathbf{Z}^d$ actions. **97d:28001**
Oslo ★ The Sophus Lie Memorial Conference. **97m:00029**
School:
Group Theory ★ Algebraic and analytic methods in representation theory. **97d:00014**
Sønderborg ★ Algebraic and analytic methods in representation theory. **97d:00014**
Symposium:
Ergodic Theory of $\mathbf{Z}^d$ Actions ★ Ergodic theory of $\mathbf{Z}^d$ actions. **97d:28001**
Warwick ★ Ergodic theory of $\mathbf{Z}^d$ actions. **97d:28001**

22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35.}

22A05 Structure of general topological groups

Belyaev, V. V. Topologization of countable locally finite groups. (Russian. Russian summary) **97e:22001**
Bruguera, M. Montserrat (*with* Martín-Peinador, Elena) Open subgroups, compact subgroups and Binz-Butzmann reflexivity. (English summary) **97j:22001**
Günther, Bernd Construction of ANR topologies on certain groups. **97j:22002**
Kopperman, Ralph D. (*with* Mislove, Michael W.; Morris, Sidney A.; Nickolas, Peter; Pestov, V. G.; Svetlichnyĭ, S. A.) Limit laws for wide varieties of topological groups. (English summary) **97f:22001**
Magill, K. D., Jr. Topological N-groups on the reals. (English summary) **97j:22003**
Martín-Peinador, Elena *see* **Bruguera, M. Montserrat, 97j:22001**
Mislove, Michael W. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Morris, Sidney A. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Nickolas, Peter *see* **Kopperman, Ralph D.; et al., 97f:22001**
Pestov, V. G. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Sun, Ye Shun *see* **Wang, Bao Wen, 97d:22002**
Svetlichnyĭ, S. A. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Turnwald, Gerhard Duality theory of abelian topological groups. **97k:22001**
Uspenskiĭ, Vladimir V. On the Suslin number of subgroups of products of countable groups. (English summary) **97f:22002**
Wang, Bao Wen (*with* Sun, Ye Shun) Direct product decompositions of topological groups. (Chinese. English and Chinese summaries) **97d:22002**
Yamada, Kohzo Calculation of the tightness of free topological abelian groups. (Japanese) **97d:22003**
Zelenyuk, E. G. Finite groups in $\beta\mathbf{N}$ are trivial. (Russian) **97j:22004**

Items with secondary classifications in 22A05

Bouziad, Ahmed Borel measures in consonant spaces. (English summary) **97c:54010**
Dikranjan, Dikran N. On the poset of precompact group topologies. **97d:54062**
Megrelishvili, M. G. Free topological G-groups. (English summary) **97f:54047**
Sergiescu, Vlad (*with* Tsuboi, Takashi) Acyclicity of the groups of homeomorphisms of the Menger compact spaces. (English summary) **97g:54053**
Troallic, J. P. Sequential criteria for equicontinuity and uniformities on topological groups. (English summary) **97h:54031**
Tsuboi, Takashi *see* **Sergiescu, Vlad, 97g:54053**
Turek, Sławomir Minimal dynamical system for ω-bounded groups. (English summary) **97a:54046**
Yamada, Kohzo Free abelian topological groups and k-spaces. (English summary) **97d:54047**

22A10 Analysis on general topological groups

Acosta G., Ernesto Differentiability in topological groups. (English summary) **97f:22003**
Lashkarizadeh-Bami, M. On the sup-norm closure of the L^∞-representation algebra $\mathscr{R}(S)$ of a foundation semigroup S. **97c:22002**
Tkachenko, M. G. On the linearity of the Graev continuation of a pseudo-metric. (Russian. Russian summary) **97b:22001**

Items with secondary classifications in 22A10

Çakalli, H. (*with* Thorpe, B.) Cesàro means in topological groups. **97m:40007**
Carcano, Giovanna Left and right on locally compact groups. (English summary) **97f:22008**
Ebrahimi-Vishki, H. R. Joint continuity of separately continuous mappings on topological groups. (English summary) **97a:54039**
Florencio, Miguel (*with* Paúl, Pedro J.; Viruès, J. M.) On the Mikusiński-Antosik diagonal theorem. (English summary) **97f:46012**
Paúl, Pedro J. *see* **Florencio, Miguel; et al., 97f:46012**
Slezák, B. An inverse-function theorem in topological groups. **97a:46055**
Smirnov, Yu. M. Minimal topologies on acting groups. (Russian) **97c:54034**
Thorpe, B. *see* **Çakalli, H., 97m:40007**
Viruès, J. M. *see* **Florencio, Miguel; et al., 97f:46012**

22A15 Structure of topological semigroups

Bandyopadhyay, T. *see* **Ganguly, Sobhakar, 97a:22001**
Chae, Younki (*with* Choi, Keunbae) Topologically 0-simple semigroups. (English summary) **97f:22004**
— (*with* Choi, Keunbae) Representations of involutive semigroups. **97k:22002**
Choi, Keunbae *see* **Chae, Younki, 97f:22004** *and* **97k:22002**
Filali, Mahmoud Weak p-points and cancellation in βS. (English summary) **97k:22003**
— Right cancellation in βS and UG. (English summary) **97d:22004**
Ganguly, Sobhakar (*with* Bandyopadhyay, T.) On θ-topological semigroup. (English summary) **97a:22001**

Hindman, Neil (*with* Strauss, Dona Papert) Compact subsemigroups of $(\beta\mathbb{N}, +)$ containing the idempotents. (English summary) **97h:22002**
Kripalini, K. S. Corrigendum: "On special types of semigroup compactifications" [Indian J. Pure Appl. Math. **26** (1995), no. 3, 259–269; MR 96e:22004]. (English summary)
Lawson, Jimmie D. Free local semigroup constructions. (English summary) **97e:22002**
Maleki, A. (*with* Strauss, Dona Papert) Homomorphisms, ideals and commutativity in the Stone-Čech compactification of a discrete semigroup. (English summary) **97e:22003**
Protasov, I. V. Points of joint continuity of a semigroup of ultrafilters of an abelian group. (Russian. Russian summary) **97g:22001**
Strauss, Dona Papert *see* **Maleki, A., 97e:22003** *and* **Hindman, Neil, 97h:22002**

Items with secondary classifications in 22A15

Haddad, Kamel N. New limiting notions of the IP type in the enveloping semigroup. (English summary) **97j:54042**
Hindman, Neil (*with* Strauss, Dona Papert) Prime properties of the smallest ideal of $\beta\mathbb{N}$. **97c:54033**
Shi, Hong-ting Central subsets of infinite discrete semigroup. **97h:54044**
— (*with* Yang, Hong-wei) Nonmetrizable topological dynamical characterization of central sets. (English summary) **97j:54045**
Strauss, Dona Papert *see* **Hindman, Neil, 97c:54033**
Yang, Hong-wei *see* **Shi, Hong-ting, 97j:54045**

22A20 Analysis on topological semigroups

Atanasiu, Dragu A Lévy-Khinchine formula for semigroups and related problems: an adapted spaces approach. (English summary) **97a:22002**
Baker, John Walter (*with* Lashkarizadeh-Bami, M.) Representations and positive definite functions on topological semigroups. (English summary) **97g:22002**
Ebrahimi-Vishki, H. R. (*with* Pourabdollah, M. A.) Universal semigroup compactifications with respect to some properties. **97k:22004**
Lashkarizadeh-Bami, M. *see* **Baker, John Walter, 97g:22002**
Pourabdollah, M. A. *see* **Ebrahimi-Vishki, H. R., 97k:22004**
Sakakibara, Nobuhisa Moment problems on $\mathbb{N}_0 \setminus \{1\}$. (English summary) **97d:22005**
Šikić, Hrvoje Positive definite functions on separable function spaces. (English summary) **97f:22005**

Items with secondary classifications in 22A20

Bisgaard, Torben Maack Separation by characters or positive definite functions. **97k:43006**
Ebrahimi-Vishki, H. R. (*with* Pourabdollah, M. A.) The universal nilpotent group compactification of a semigroup. (English summary) **97h:43002**
Kripalini, K. S. Corrigendum: "On special types of semigroup compactifications" [Indian J. Pure Appl. Math. **26** (1995), no. 3, 259–269; MR 96e:22004]. (English summary)
Pourabdollah, M. A. *see* **Ebrahimi-Vishki, H. R., 97h:43002**

22A22 Topological groupoids (including differentiable and Lie groupoids)

Aggarwal, Kanta *see* **Chinda, K. P., 97f:22006**
Brown, Ronald (*with* Mucuk, Osman) The monodromy groupoid of a Lie groupoid. (French summary) **97b:22002**
— (*with* Mucuk, Osman) Foliations, locally Lie groupoids and holonomy. (French summary) **97j:22005**
Chinda, K. P. (*with* Aggarwal, Kanta) Cancellable H-groupoids and applications of acts to H-groupoids. (English summary) **97f:22006**
Danilenko, A. I. The topological structure of Polish groups and groupoids of measure space transformations. (English summary) **97b:22003**
Mucuk, Osman Star topological groupoids. (English and Turkish summaries) **97d:22006**
— *see also* **Brown, Ronald, 97b:22002** *and* **97j:22005**

Items with secondary classifications in 22A22

Fang, Xiao Chun Induced representations of groupoids. (Chinese. English and Chinese summaries) **97j:46058**
Kosmann-Schwarzbach, Yvette The Lie bialgebroid of a Poisson-Nijenhuis manifold. (English summary) **97m:58216**
Liu, Z.-J. (*with* Xu, Ping[†]) Exact Lie bialgebroids and Poisson groupoids. **97e:58234**
Vallin, Jean-Michel Bimodules de Hopf et poids opératoriels de Haar. (English summary) [Hopf bimodules and Haar operator weights] **97f:46095**
Xu, Ping[†] *see* **Liu, Z.-J., 97e:58234**

22A25 Representations of general topological groups and semigroups

Items with secondary classifications in 22A25

Chae, Younki (*with* Choi, Keunbae) Representations of involutive semigroups. **97k:22002**
Choi, Keunbae *see* **Chae, Younki, 97k:22002**
Lashkarizadeh-Bami, M. On the sup-norm closure of the L^∞-representation algebra $\mathcal{R}(S)$ of a foundation semigroup S. **97c:22002**
Neeb, Karl-Hermann Holomorphic representations of Ol'shanskiĭ semigroups. **97b:22017**
— Coherent states, holomorphic extensions, and highest weight representations. (English summary) **97k:22018**

22A26 Topological semilattices, lattices and applications [see also 06B30, 06B35, 06F30]

Items with secondary classifications in 22A26

Ebrahimi-Vishki, H. R. (*with* Pourabdollah, M. A.) Universal semigroup compactifications with respect to some properties. **97k:22004**
Harminc, Matúš G-normality of a sequential convergence on an l-group. (English summary) **97e:06019**
Pourabdollah, M. A. *see* **Ebrahimi-Vishki, H. R., 97k:22004**

22A30 Other topological algebraic systems and their representations

Sabinin, Lev V. The theory of smooth hyporeductive and pseudoreductive loops. (English summary) **97c:22003**
Sosov, E. N. On an odule in the Hilbert geometry. (Russian) **97e:22004**

Items with secondary classifications in 22A30

Duan, Qin Zhi *see* **Li, Hong Xing**
Gul'ko, Alexandra S. Rectifiable spaces. (English summary) **97a:54028**
Li, Hong Xing (*with* Duan, Qin Zhi) Hypertopological groups based on powergroups. (Chinese. English and Chinese summaries)
Magill, K. D., Jr. Topological N-groups on the reals. (English summary) **97j:22003**
Malykhin, V. I. (*with* Protasov, I. V.) Maximal resolvability of bounded groups. (English summary) **97k:54030**
Marín, Josefa (*with* Romaguera, Salvador) A bitopological view of quasi-topological groups. (English summary) **97b:54038**
Matveev, O. A. (*with* Panshina, A. V.) Quasigroups on manifolds with trajectories. (English and Russian summaries) **97e:53024**
Muhly, Paul S. (*with* Williams, Dana P.) Groupoid cohomology and the Dixmier-Douady class. **97d:46082**
Panshina, A. V. *see* **Matveev, O. A., 97e:53024**
Pin, Jean-Eric (*with* Weil, Pascal) A Reiterman theorem for pseudovarieties of finite first-order structures. (English and French summaries) **97g:03041**
Protasov, I. V. *see* **Malykhin, V. I., 97k:54030**
Romaguera, Salvador *see* **Marín, Josefa, 97b:54038**
Sabinin, Lev V. Homogeneous spaces and quasigroups. (Russian) **97k:53053**
Szambien, H. Completion of topological loops. (English summary) **97k:54024**
Weil, Pascal *see* **Pin, Jean-Eric, 97g:03041**
Williams, Dana P. *see* **Muhly, Paul S., 97d:46082**
Woracek, H. On the existence of congruence-uniform structures on universal algebras. **97i:08002**

22A99 None of the above, but in this section

Higasikawa, Masasi Finite images of topological groups. (Japanese. Japanese summary) (*see* **97c:03011**)
Hušek, Miroslav Sequentially continuous homomorphisms on products of topological groups. (English summary) **97f:22007**
Uskova, E. N. A character property of topological homogeneous spaces which are G-spaces. (English and Russian summaries) **97j:22006**

Items with secondary classifications in 22A99

Beintema, Mark (*with* Budzban, Gregory) The structure of limit measures and their supports on topological semigroups. (English summary) **97c:43002**
Bouziad, Ahmed Continuity of separately continuous group actions in p-spaces. (English summary) **97e:54035**
Budzban, Gregory *see* **Beintema, Mark, 97c:43002**
Călugăreanu, Grigore La $\mathcal{T}$-topologie d'un groupe abélien. (French and Romanian summaries) [The $\mathcal{T}$-topology of an abelian group] **97j:54039**
Jha, Pradeep Kumar (*with* Singh, Tej B.) Some local properties of fuzzy topology and fuzzy topological groups. (English summary) **97d:54010**
Singh, Tej B. *see* **Jha, Pradeep Kumar, 97d:54010**

22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

Comfort, W. W. (*with* Hernández, Salvador; Trigos-Arrieta, F. Javier) Relating a locally compact abelian group to its Bohr compactification. (English summary) **97k:22005**
Hernández, Salvador *see* **Comfort, W. W.; et al., 97k:22005**
Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al., 97k:22005**

Items with secondary classifications in 22B05

Bruguera, M. Montserrat (*with* Martín-Peinador, Elena) Open subgroups, compact subgroups and Binz-Butzmann reflexivity. (English summary) **97j:22001**
Martín-Peinador, Elena *see* **Bruguera, M. Montserrat, 97j:22001**
Turnwald, Gerhard Duality theory of abelian topological groups. **97k:22001**

22B10 Structure of group algebras of LCA groups

Items with secondary classifications in 22B10

Font, Juan J. (*with* Hernández, Salvador) Automatic continuity and representation of certain linear isomorphisms between group algebras. (English summary) **97b:46069**
Hernández, Salvador *see* **Font, Juan J., 97b:46069**

22B99 None of the above, but in this section

Items with secondary classifications in 22B99

Chojnacki, Wojciech Group representations of bounded cosine functions. **97k:39024**
Dikranjan, Dikran N. Uniqueness of dualities. (English summary) **97c:13017**
Gutzmer, Tim Interpolation by positive definite functions on locally compact groups with application to SO(3). (English summary) **97e:41041**

22C05 Compact groups

Items with secondary classifications in 22C05

Blecher, David P. Continuous functions on compact groups. (English summary) **97f:46091**
Fegan, H. D. (*with* Steer, Brian) First order operators on manifolds with a group action. (English summary) **97d:58180**
Klink, W. H. (*with* Ton-That, T.) Multiplicity, invariants, and tensor product decompositions of compact groups. (English summary) **97j:81094**
Onishchik, A. L. ★ Топология транзитивных групп преобразований. (Russian. English and Russian summaries) [Topology of transitive transformation groups] **97j:57057**
Sakai, Katsuro Semi-free actions of zero-dimensional compact groups on Menger compacta. (English summary) **97j:54043**
Steer, Brian *see* **Fegan, H. D., 97d:58180**
Su, Wei Yi Operators–derivatives–spaces–differential equations on locally compact Vilenkin groups. (English summary) **97d:42027**
Takahashi, Yuji Some counterexamples in amenability. **97k:43003**
Ton-That, T. *see* **Klink, W. H., 97j:81094**
Wang, Shuzhou Deformations of compact quantum groups via Rieffel's quantization. (English summary) **97h:46116**

22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

Akbarov, S. S. Differential geometry and quantization on a locally compact group. (Russian. Russian summary) **97h:22003**
Carcano, Giovanna Left and right on locally compact groups. (English summary) **97f:22008**
De Smit, Bart Measure characteristics of complexes. (French summary) **97e:22005**
Hofmann, Karl H. (*with* Morris, Sidney A.; Oates-Williams, Sheila; Obraztsov, V. N.) Locally compact groups with closed subgroups open and p-adic. **97a:22003**
— (*with* Morris, Sidney A.; Stroppel, Markus) Varieties of topological groups, Lie groups and SIN-groups. **97c:22004**
— (*with* Morris, Sidney A.; Stroppel, Markus) Locally compact groups, residual Lie groups, and varieties generated by Lie groups. (English summary) **97k:22006**
Jaworski, Wojciech The density of the image of the exponential function and spacious locally compact groups. (English summary) **97c:22005**
Lin, Yi Xing Some theorems on measure and topology. (Chinese. English and Chinese summaries) **97j:22007**
Morris, Sidney A. *see* **Hofmann, Karl H.; et al., 97a:22003; 97c:22004** *and* **97k:22006**
Oates-Williams, Sheila *see* **Hofmann, Karl H.; et al., 97a:22003**
Obraztsov, V. N. *see* **Hofmann, Karl H.; et al., 97a:22003**
Stroppel, Markus *see* **Hofmann, Karl H.; et al., 97c:22004** *and* **97k:22006**

Items with secondary classifications in 22D05

Kodaka, Kazunori Tracial states on crossed products associated with Furstenberg transformations on the 2-torus. (English summary) **97g:46087a**
— Erratum to: "Tracial states on crossed products associated with Furstenberg transformations on the 2-torus". **97g:46087b**

22D10 Unitary representations of locally compact groups

Bernier, David (*with* Taylor, Keith F.) Wavelets from square-integrable representations. (English summary) **97h:22004**
Jiang, Qingtang Wavelet transform and orthogonal decomposition of L^2 space on the Cartan domain BDI ($q = 2$). (English summary) **97h:22005**
Pensavalle, Carlo (*with* Steger, Tim) Tensor products with anisotropic principal series representations of free groups. (English summary) **97k:22007**
Steger, Tim *see* **Pensavalle, Carlo, 97k:22007**
Taylor, Keith F. *see* **Bernier, David, 97h:22004**
Żuk, Andrzej La propriété (T) de Kazhdan pour les groupes agissant sur les polyèdres. (English and French summaries) [Kazhdan's property (T) for groups acting on polyhedra] **97i:22001**

Items with secondary classifications in 22D10

Archbold, Robert J. (*with* Kaniuth, Eberhard) Simply connected nilpotent Lie groups with quasi-standard C^*-algebras. (English summary) **97j:22009**
Bekka, Mohammed El Bachir (*with* Cherix, Pierre-Alain; Valette, Alain) Proper affine isometric actions of amenable groups. **97e:43001**
Bidegain, Frédéric A candidate for a noncompact quantum group. (English summary) **97c:17012**
Cherix, Pierre-Alain *see* **Bekka, Mohammed El Bachir; et al., 97e:43001**
Fegan, H. D. (*with* Steer, Brian) First order operators on manifolds with a group action. (English summary) **97d:58180**
Führ, Hartmut Wavelet frames and admissibility in higher dimensions. (English summary) **97h:42014**
Julg, Pierre Remarks on the Baum-Connes conjecture and Kazhdan's property T. (English summary) **97i:46125**
Kaniuth, Eberhard *see* **Archbold, Robert J., 97j:22009**
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22D12 Other representations of locally compact groups

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Shul'man, E. V. Group representations and stability of functional equations. **97h:39018**

22D15 Group algebras of locally compact groups

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Lau, Anthony To-Ming *see* **Ghahramani, Fereidoun, 97a:22005**

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Farhadi, Hamid-Reza Isomorphisms between the second duals of group algebras of locally compact groups. (English summary) **97b:43001**
Kaniuth, Eberhard (*with* Taylor, Keith F.) Minimal projections in L^1-algebras and open points in the dual spaces of semi-direct product groups. **97d:43002**
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22D20 Representations of group algebras

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22D25 C^*-algebras and W^*-algebras arising from group representations [see also 46Lxx]

Archbold, Robert J. (*with* Kaniuth, Eberhard) Simply connected nilpotent Lie groups with quasi-standard C^*-algebras. (English summary) **97j:22009**
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Lehner, Franz A characterization of the Leinert property. (English summary) **97m:22001**
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Bui, Huu Hung A Hilbert C^*-module method for Morita equivalence of twisted crossed products. (English summary) **97i:46120**
Carey, Alan L. (*with* Moran, William; Pearce, C. E. M.) A Kirillov theory for divisible nilpotent groups. **97c:20050**
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Echterhoff, Siegfried (*with* Rosenberg, Jonathan) Fine structure of the Mackey machine for actions of abelian groups with constant Mackey obstruction. (English summary) **97a:46091**
Exel, Ruy (*with* Laca, Marcelo) Continuous Fell bundles associated to measurable twisted actions. (English summary) **97e:46073**
Gootman, Elliot C. (*with* Lazar, Aldo J.) Spectra for infinite tensor product type actions of compact groups. (English summary) **97e:46091**
Ji, Ronghui (*with* Schweitzer, Larry B.) Spectral invariance of smooth crossed products, and rapid decay locally compact groups. (English summary) **97d:46079**
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Landstad, Magnus B. Simplicity of crossed products from ergodic actions of compact matrix pseudogroups. **97d:46076**
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Lipsman, Ronald L. (*with* Rosenberg, Jonathan) The behavior of Fourier transforms for nilpotent Lie groups. (English summary) **97d:22008**

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Pask, David (*with* Raeburn, Iain) On the K-theory of Cuntz-Krieger algebras. (English summary) **97m:46111**
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— (*with* Woronowicz, S. L.) Duality for the quantum $E(2)$ group. (English summary) **97d:46091**
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Woronowicz, S. L. *see* **Van Daele, Alfons, 97d:46091**

22D30 Induced representations

Items with secondary classifications in 22D30

Fellah, M. *see* **Smida, A.; et al., 97c:81160**
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22D35 Duality theorems

Items with secondary classifications in 22D35

Enock, Michel (*with* Vaĭnerman, L. I.) Deformation of a Kac algebra by an abelian subgroup. (English summary) **97f:46115**
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Vaĭnerman, L. I. *see* **Enock, Michel, 97f:46115**

22D40 Ergodic theory on groups [see also 28Dxx, 43A60]

Gutschera, K. Robert Ergodic elements for actions of Lie groups. (English summary) **97j:22010**
Hofmann, Karl H. (*with* Stoyanov, Luchezar N.) Topological entropy of group and semigroup actions. **97a:22006**
Iozzi, A. (*with* Nevo, A.) Algebraic hulls and the Følner property. **97j:22011**
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Lin, Michael (*with* Wittmann, Rainer) Ergodic sequences of averages of group representations. (English summary) **97a:22007**
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Danilenko, A. I. The topological structure of Polish groups and groupoids of measure space transformations. (English summary) **97b:22003**
Everest, Graham *see* **Chothi, Vijay; et al., 97i:28012**
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Kodaka, Kazunori Tracial states on crossed products associated with Furstenberg transformations on the 2-torus. (English summary) **97g:46087a**
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Labourie, F. (*with* Mozes, Shahar; Zimmer, Robert J.) On manifolds locally modelled on non-Riemannian homogeneous spaces. **97j:53053**
Lind, Douglas A zeta function for $\mathbf{Z}^d$-actions. (English summary) **97e:58185**
Mizumachi, Hitoshi (*with* Satô, Hiroshi[1]) Continuity of measures by group actions. (Japanese) **97e:60011**
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Reyes, Edgar N. Homomorphisms of ergodic group actions and conjugacy of skew product actions. (English summary) **97d:28028**
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Schmidt, Klaus ★ Dynamical systems of algebraic origin. (English summary) **97c:28041**
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Zimmer, Robert J. *see* **Labourie, F.; et al., 97j:53053**

22D99 None of the above, but in this section

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Bendikov, A. D. (*with* Saloff-Coste, Laurent) Théorie du potentiel sur les produits infinis et les groupes localement compacts. (English and French summaries) [Potential theory on infinite products and locally compact groups] **97m:31005**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 97m:31005**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

Items with secondary classifications in 22Exx

Carter, R. W. (*with* Segal, Graeme; Macdonald, Ian G.) ★ Lectures on Lie groups and Lie algebras. (English summary) **97f:17002**
Macdonald, Ian G. *see* **Carter, R. W.; et al., 97f:17002**
Segal, Graeme *see* **Carter, R. W.; et al., 97f:17002**
(Taylor, Martin J.) *see* **Carter, R. W.; et al., 97f:17002**

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

Pestov, V. G. Regular Lie groups and a theorem of Lie-Palais. (English summary) **97b:22006**
San Martin, Luiz A. B. (*with* Tonelli, Pedro A.) Semigroup actions on homogeneous spaces. (English summary) **97a:22008**
Tonelli, Pedro A. *see* **San Martin, Luiz A. B., 97a:22008**

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Lagno, V. I. On new representations of the Poincaré and Euclidean groups. (Ukrainian. English summary) **97m:17026**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Chen, P. B. (*with* Wu, Ta Sun) Hopf algebras, Lie algebras, and analytic groups. **97e:22006**
Cohen, Arjeh Marcel Some indications that the exceptional groups form a series. (English summary) **97j:22012**
Deligne, Pierre (*with* de Man, Ronald) La série exceptionnelle de groupes de Lie. II. (English and French summaries) [The exceptional series of Lie groups. II] **97k:22008**
Gromov, N. A. (*with* Moskalyuk, S. S.) Special unitary groups in Cayley-Klein spaces. (English summary) **97c:22009**
Hilgert, Joachim (*with* Neeb, Karl-Hermann) Compression semigroups of open orbits in complex manifolds. **97j:22013**
Lee, Dong Hoon[1] ★ Complex Lie groups and observability. **97f:22009**
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Moskowitz, Martin Exponentiality of algebraic groups. **97k:22009**
Neeb, Karl-Hermann Weakly exponential Lie groups. (English summary) **97c:22007**
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Wu, Ta Sun *see* **Lee, Dong Hoon[1], 97b:22007** *and* **Chen, P. B., 97e:22006**
Wüstner, Michael On the surjectivity of the exponential function of complex algebraic, complex semisimple, and complex splittable Lie groups. (English summary) **97j:22014**

Items with secondary classifications in 22E10

Dardié, Jean-Michel (*with* Medina, Alberto) Double extension symplectique d'un groupe de Lie symplectique. (English summary) [Symplectic double extension of a symplectic Lie group] **97e:58076**
Gomyo, Satoshi Maximal subgroups of rank 8 of simply connected compact Lie groups of type E_8. (Japanese) **97f:22010**
Humphreys, James E. ★ Conjugacy classes in semisimple algebraic groups. **97i:20057**
Leuzinger, Enrico Geodesic rays in locally symmetric spaces. (English summary) **97a:53063**
Medina, Alberto *see* **Dardié, Jean-Michel, 97e:58076**

22E15 General properties and structure of real Lie groups

Benson, David John Fusion in compact Lie groups. **97j:22015**
Djoković, Dragomir Ž. (*with* Nguyễn Quốc Thắng) On the exponential map of almost simple real algebraic groups. (English summary) **97e:22007**

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Gorbatsevich, V. V. On hulls of abelian subgroups in connected Lie groups. (Russian) **97j:22016**
Gromov, N. A. (*with* Moskalyuk, S. S.) Special orthogonal groups in Cayley-Klein spaces. (English summary) **97c:22008**
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Lawson, Jimmie D. *see* **Hofmann, Karl H.; et al., 97j:22017**
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Nahlus, Nazih Note on faithful representations and a local property of Lie groups. (English summary) **97j:22018**
Nguyễn Quốc Thắng *see* **Djoković, Dragomir Ž., 97e:22007**
Ruppert, Wolfgang A. F. *see* **Hofmann, Karl H.; et al., 97j:22017**
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Barannik, L. F. (*with* Lagno, G. O.) Subalgebras of the algebra $AP(1,1) \oplus AP(1,1)$ and symmetry reduction of four-dimensional d'Alembert equation. (Russian and Ukrainian summaries) **97c:35005**
Borisov, Adriyan V. Subgroups of the isometry group in a Galilean space. I. The cases of two- and three-parametric subgroups. (English summary) **97a:51045**
— Subgroups of the isometry group in a Galilean space. II. The cases of four- and five-parametric subgroups. (English summary) **97m:51030**
Dardié, Jean-Michel (*with* Medina, Alberto) Double extension symplectique d'un groupe de Lie symplectique. (English summary) [Symplectic double extension of a symplectic Lie group] **97e:58076**
Faraut, Jacques (*with* Gindikin, Simon G.) Pseudo-Hermitian symmetric spaces of tube type. **97i:32045**
Gindikin, Simon G. *see* **Faraut, Jacques, 97i:32045**
Hilgert, Joachim The halfspace method for causal structures on homogeneous manifolds. **97c:53077**
— (*with* Neeb, Karl-Hermann) Compression semigroups of open orbits in complex manifolds. **97j:22013**
Jaworski, Wojciech The density of the image of the exponential function and spacious locally compact groups. (English summary) **97e:22005**
Kisil', Vladimir V. Local algebras of two-sided convolutions on the Heisenberg group. (Russian. Russian summary) **97h:22006**
Lagno, G. O. *see* **Barannik, L. F., 97c:35005**
Larsen, Michael Jeffrey On the conjugacy of element-conjugate homomorphisms. II. **97b:20070**
Li, Chi-Kwong (*with* Whitney, Wayne) Closed symmetric overgroups of S_n in O_n. (English summary) **97g:20057**
Lounesto, Pertti Counter-examples in Clifford algebras. (English summary) **97k:15065**
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Moons, T. (*with* Van Gool, Luc; Pauwels, E.; Oosterlinck, André) Viewpoint invariant characteristics of articulated objects. (English summary) **97b:68235**
Neeb, Karl-Hermann Invariant convex sets and functions in Lie algebras. (English summary) **97j:17033**
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Penney, Richard C. The Harish-Chandra realization for non-symmetric domains in $\mathbf{C}^n$. **97i:32044**
Pestov, V. G. Regular Lie groups and a theorem of Lie-Palais. (English summary) **97b:22006**
Reiman, A. G. Poisson structures related to quantum groups. **97j:58052**
Sessou, Paul Metrized theorem for locally compact connected left loops with invariant uniformity. (English and Russian summaries) **97d:20092**
Simon, Barry ★ Representations of finite and compact groups. (English summary) **97c:22001**
Vaisman, Izu On complementary 2-forms of Poisson-Lie groups. **97a:22024**
Van Gool, Luc *see* **Moons, T.; et al., 97b:68235**
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22E20 General properties and structure of other Lie groups

Items with secondary classifications in 22E20

Moskowitz, Martin Exponentiality of algebraic groups. **97k:22009**
Röhrle, Gerhard Parabolic subgroups of positive modality. (English summary) **97c:20070**

22E25 Nilpotent and solvable Lie groups

Hulanicki, Andrzej Estimates for the Poisson kernels and a Fatou type theorem. Applications to analysis on Siegel domains. (English summary) **97g:22005**
Jaworski, Wojciech A Poisson formula for solvable Lie groups. (English summary) **97j:22019**
Klink, W. H. (*with* Leung, E. Y.; Ton-That, T.) Casimir operators of semidirect products of semisimple with Heisenberg groups. (English summary) **97c:22010**
Leung, E. Y. *see* **Klink, W. H.; et al., 97c:22010**
Ludwig, Jean (*with* Molitor-Braun, Carine) Algèbre de Schwartz d'un groupe de Lie nilpotent. [Schwartz algebra of a nilpotent Lie group] **97a:22009**
— (*with* Molitor-Braun, Carine) A restriction theorem for ideals in the Schwartz algebra of a nilpotent Lie group. **97g:22006**
Molitor-Braun, Carine *see* **Ludwig, Jean, 97a:22009** *and* **97g:22006**
do Rocio, Osvaldo Germano (*with* San Martin, Luiz A. B.) Semigroups in lattices of solvable Lie groups. (English summary) **97d:22007**
San Martin, Luiz A. B. *see* **do Rocio, Osvaldo Germano, 97d:22007**
Ton-That, T. *see* **Klink, W. H.; et al., 97c:22010**
Ukhlov, A. D. *see* **Vodop'yanov, S. K., 97f:22011**
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Astengo, Francesca Multipliers for a distinguished Laplacean on solvable extensions of H-type groups. (English summary) **97c:22012**
Ben Amar, N. Tangential deformations on the dual of nilpotent special Lie algebras. (English summary) **97b:17009**
Berndt, Jürgen (*with* Tricerri, Franco; Vanhecke, Lieven) ★ Generalized Heisenberg groups and Damek-Ricci harmonic spaces. **97a:53068**
Biagini, Silvia Positive solutions for a semilinear equation on the Heisenberg group. (Italian summary) **97a:22012**
Birindelli, Isabeau (*with* Cutrì, Alessandra) A semi-linear problem for the Heisenberg Laplacian. (English summary) **97b:35027**
Biroli, Marco (*with* Mosco, Umberto; Tchou, Nicoletta A.) Homogenization for degenerate operators with periodical coefficients with respect to the Heisenberg group. (English and French summaries) **97e:35015**
Brandolini, L. (*with* Rigoli, Marco; Setti, Alberto G.) On the existence of positive solutions of Yamabe-type equations on the Heisenberg group. (English summary) **97g:35024**
Burillo, José Lower bounds of isoperimetric functions for nilpotent groups. (English summary) **97b:20053**
Capogna, Luca Optimal regularity for quasilinear equations in stratified nilpotent Lie groups and applications. (English summary) **97j:35016**
Coulhon, Thierry (*with* Müller, Detlef; Zienkiewicz, Jacek) About Riesz transforms on the Heisenberg groups. **97f:22015**
Cutrì, Alessandra *see* **Birindelli, Isabeau, 97b:35027**
Dotti Miatello, Isabel G. On the curvature of certain extensions of H-type groups. (English summary) **97d:53047**
Garimella, Gayatri Un théorème de Paley-Wiener pour les groupes de Lie nilpotents. (English summary) [A Paley-Wiener theorem for nilpotent Lie groups] **97f:22016**
Golé, Chr. (*with* Karidi, R.) A note on Carnot geodesics in nilpotent Lie groups. (English summary) **97a:53062**
Goze, Michel Nilpotent Lie algebras and Riemannian nilmanifolds. (English and Romanian summaries) **97i:17010**
Guediri, Mohammed On completeness of left-invariant Lorentz metrics on solvable Lie groups. (English summary) **97k:53080**
Guliev, V. S. Boundedness of singular integral operators on the Heisenberg group in weighted generalized Hölder spaces. (Russian. English summary) **97d:43011**
Güner, Necdet Invariant differential forms on compact nilmanifolds. (English summary) **97h:22015**
Jacobsen, Jacob The image of the enveloping algebra and irreducibility of induced representations of exponential Lie groups. (English summary) **97c:22011**
Kaimanovich, Vadim A. The Poisson boundary of polycyclic groups. (English summary) **97c:31014**
Kamishima, Yoshinobu Transformation groups on Heisenberg geometry. **97e:53046**
Kaniuth, Eberhard *see* **Archbold, Robert J., 97j:22009**
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Kirillov, Aleksandr Aleksandrovich Variations on the triangular theme. **97a:20072**
Kisil', Vladimir V. Quantum probabilities and non-commutative Fourier transform on the Heisenberg group. **97b:81060**
Kunita, Hiroshi Convolution semigroups of stable distributions over a nilpotent Lie group. (English summary) **97c:43003**
Lipsman, Ronald L. Proper actions and a compactness condition. **97b:22013**
Liu, Heping The H^p boundedness of Riesz means on the Heisenberg group. (English summary) **97k:43013**
Mittenhuber, Dirk On the causal structure of Lorentzian Lie groups. A globality theorem for Lorentzian cones in certain solvable Lie algebras. **97e:22008**
Mosco, Umberto *see* **Biroli, Marco; et al., 97e:35015**
Müller, Detlef (*with* Ricci, Fulvio) Solvability for a class of non-homogeneous differential operators on two-step nilpotent groups. **97a:43008**
— *see also* **Coulhon, Thierry; et al., 97f:22015**
Neuenschwander, Daniel Universal laws on simply connected nilpotent Lie groups of class 2. (Russian) **97i:60011**
— Triangular systems on discrete subgroups of simply connected nilpotent Lie groups. (English summary) **97j:60016**
— (*with* Roynette, Bernard; Schott, René) Characterizations of Gaussian distributions on simply connected nilpotent Lie groups and symmetric spaces. (English and French summaries) **97k:60022**
Qu, Chang Zheng Necessary conditions for local solvability of a class of inhomogeneous left-invariant differential operators on nilpotent Lie groups. (Chinese. Chinese summary) **97h:22007**
Ricci, Fulvio *see* **Müller, Detlef, 97a:43008**
Rigoli, Marco *see* **Brandolini, L.; et al., 97g:35024**
Roynette, Bernard *see* **Neuenschwander, Daniel; et al., 97k:60022**
Schott, René *see* **Neuenschwander, Daniel; et al., 97k:60022**
Schueth, Dorothee Line bundle Laplacians over isospectral nilmanifolds. (English summary) **97k:58173**
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Shah, Riddhi Limits of commutative triangular systems on real and p-adic groups. **97e:60015**
Sudo, Takahiro Structure of the C^*-algebras of nilpotent Lie groups. (English summary) **97d:22009**
Tchou, Nicoletta A. *see* **Biroli, Marco; et al., 97e:35015**
Torasso, Pierre ★ Méthode des orbites de Kirillov-Duflo et représentations minimales des groupes simples sur un corps local de caractéristique nulle. (French. English and French summaries) [Kirillov-Duflo orbit method and minimal representations of simple groups over a local field of characteristic zero] **97h:22014**
Tricerri, Franco *see* **Berndt, Jürgen; et al., 97a:53068**
Vanhecke, Lieven *see* **Berndt, Jürgen; et al., 97a:53068**
Wallace, Dorothy I. Signal processing and the Jacobi group. **97b:94009**
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22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

Bose, Samir Kumar Projective representations of the $(1+1)$-dimensional Poincaré group. (English summary) **97f:22012**
Currey, Bradley N. Smooth decomposition of finite multiplicity monomial representations for a class of completely solvable homogeneous spaces. (English summary) **97a:22010**
Jacobsen, Jacob The image of the enveloping algebra and irreducibility of induced representations of exponential Lie groups. (English summary) **97c:22011**
Lipsman, Ronald L. (*with* Rosenberg, Jonathan) The behavior of Fourier transforms for nilpotent Lie groups. (English summary) **97d:22008**
Mokni, Kamel Paires de Guelfand généralisées et le groupe d'Heisenberg. (English and French summaries) [Generalized Gel'fand pairs and the Heisenberg group] **97f:22013**
Rosenberg, Jonathan *see* **Lipsman, Ronald L., 97d:22008**
Sudo, Takahiro Structure of the C^*-algebras of nilpotent Lie groups. (English summary) **97d:22009**
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Arnal, Didier (*with* Ludwig, Jean) Q.U.P. and Paley-Wiener properties of unimodular, especially nilpotent, Lie groups. (English summary) **97f:43004**
Carey, Alan L. (*with* Moran, William; Pearce, C. E. M.) A Kirillov theory for divisible nilpotent groups. **97c:20050**
Kanieth, Eberhard (*with* Taylor, Keith F.) Minimal projections in L^1-algebras and open points in the dual spaces of semi-direct product groups. **97d:43002**
Klink, W. H. (*with* Leung, E. Y.; Ton-That, T.) Casimir operators of semidirect products of semisimple with Heisenberg groups. (English summary) **97c:22010**
Leung, E. Y. *see* **Klink, W. H.; et al., 97c:22010**
Ludwig, Jean *see* **Arnal, Didier, 97f:43004**
Moran, William *see* **Carey, Alan L.; et al., 97c:20050**
Pearce, C. E. M. *see* **Carey, Alan L.; et al., 97c:20050**
Ramazanov, M. A. Canonical coordinates on orbits of the coadjoint representation of tensor extensions of special nilpotent Lie groups of dimension nine. (Russian) **97d:58087**
Taylor, Keith F. *see* **Kanieth, Eberhard, 97d:43002**
Ton-That, T. *see* **Klink, W. H.; et al., 97c:22010**

22E30 Analysis on real and complex Lie groups [see also 33C80, 43-XX]

Astengo, Francesca A class of L^p convolutors on harmonic extensions of H-type groups. (English summary) **97f:22014**
— Multipliers for a distinguished Laplacean on solvable extensions of H-type groups. (English summary) **97c:22012**
Biagini, Silvia Positive solutions for a semilinear equation on the Heisenberg group. (Italian summary) **97a:22012**
Biane, Philippe Segal-Bargmann transform, functional calculus on matrix spaces and the theory of semi-circular and circular systems. (English summary) **97k:22011**
Coulhon, Thierry (*with* Müller, Detlef; Zienkiewicz, Jacek) About Riesz transforms on the Heisenberg groups. **97f:22015**
Driver, Bruce K. On the Kakutani-Itô-Segal-Gross and Segal-Bargmann-Hall isomorphisms. (English summary) **97j:22020**
Dunkl, Charles F. Intertwining operators associated to the group S_3. (English summary) **97b:22009**
Feinsilver, Philip (*with* Schott, René) Differential relations and recurrence formulas for representations of Lie groups. (English summary) **97b:22010**
Garimella, Gayatri Un théorème de Paley-Wiener pour les groupes de Lie nilpotents. (English summary) [A Paley-Wiener theorem for nilpotent Lie groups] **97f:22016**
Gaudry, Garth (*with* Sjögren, Peter) Singular integrals on Iwasawa NA groups of rank 1. **97k:22012**
Gross, Kenneth I. Invariant theory for boundary components. (English summary) **97a:22013**
Gross, Leonard The homogeneous chaos over compact Lie groups. (English summary) **97j:22021**
Herz, Carl The heat equation and certain Lie algebras. (English summary) **97b:22011**
Khalgui, M. S. (*with* Torasso, Pierre) La formule de Poisson-Plancherel pour un groupe presque algébrique réel. II. (English and French summaries) [The Poisson-Plancherel formula for a real almost algebraic group. II] **97m:22002**
Kisil', Vladimir V. Integral representations and coherent states. (English summary) **97b:22012**
— Local algebras of two-sided convolutions on the Heisenberg group. (Russian. Russian summary) **97h:22006**
Lipsman, Ronald L. Proper actions and a compactness condition. **97b:22013**
Manchon, Dominique Opérateurs pseudodifférentiels et représentations unitaires des groupes de Lie. (English and French summaries) [Pseudodifferential operators and unitary representations of Lie groups] **97b:22014**
Müller, Detlef *see* **Coulhon, Thierry; et al., 97f:22015**
Pevsner, Michel Espace de Bergman d'un semi-groupe complexe. (English and French summaries) [Bergman space of a complex semigroup] **97b:22015**
Qu, Chang Zheng Necessary conditions for local solvability of a class of inhomogeneous left-invariant differential operators on nilpotent Lie groups. (Chinese. Chinese summary) **97h:22007**
Schott, René *see* **Feinsilver, Philip, 97b:22010**
Sjögren, Peter *see* **Gaudry, Garth, 97k:22012**
Taniguchi, Kenji Discrete series Whittaker functions of $SU(n,1)$ and $Spin(2n,1)$. (English summary) **97m:22003**
Torasso, Pierre *see* **Khalgui, M. S., 97m:22002**
Unterberger, André Relativity, spherical functions and the hypergeometric equation. (English and French summaries) **97a:22014**
Varopoulos, Nicholas Th. Sur la distorsion de distances des sous-groupes des groupes de Lie. (English and French summaries) [On the distance distortion of subgroups of Lie groups] **97d:22010**
— Diffusion on Lie groups. III. (English and French summaries) **97h:22008**
— The heat kernel on Lie groups. **97f:22017**
— Analysis on Lie groups. **97m:22004**
Zhu, Fu-Liu The Radon transformation on the Cartan motion group associated with a noncompact symmetric space of rank one. (Chinese. English and Chinese summaries) **97b:22016**
— On the inverse Abel transforms for certain Riemannian symmetric spaces of rank 2. **97k:22013**
Zienkiewicz, Jacek *see* **Coulhon, Thierry; et al., 97f:22015**

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Batty, Charles J. K. (*with* Bratteli, Ola; Jørgensen, Palle E. T.; Robinson, Derek W.) Asymptotics of periodic subelliptic operators. (English summary) **97f:35028**
Biane, Philippe Quelques propriétés du mouvement brownien non-commutatif. (French summary) [Some properties of noncommutative Brownian motion] **97j:46067**
Biquard, Olivier (*with* Gauduchon, Paul) La métrique hyperkählérienne des orbites coadjointes de type symétrique d'un groupe de Lie complexe semi-simple. (English and French summaries) [The hyper-Kähler metric of coadjoint orbits of symmetric type of a complex semisimple Lie group] **97k:53040**
Biroli, Marco (*with* Mosco, Umberto; Tchou, Nicoletta A.) Homogenization for degenerate operators with periodical coefficients with respect to the Heisenberg group. (English and French summaries) **97e:35015**
Brandolini, L. (*with* Rigoli, Marco; Setti, Alberto G.) On the existence of positive solutions of Yamabe-type equations on the Heisenberg group. (English summary) **97g:35024**
Bratteli, Ola *see* **Batty, Charles J. K.; et al., 97f:35028**
Bray, William O. Generalized spectral projections on symmetric spaces of noncompact type: Paley-Wiener theorems. (English summary) **97b:43007**
Capogna, Luca Optimal regularity for quasilinear equations in stratified nilpotent Lie groups and applications. (English summary) **97j:35016**
Chirikjian, Gregory S. Fredholm integral equations on the Euclidean motion group. (English summary) **97j:45001**
Clerc, Jean-Louis Laplace transform and unitary highest weight modules. (English summary) **97e:22014**
Cupała, Wiesław The upper bound of the number of eigenvalues for a class of perturbed Dirichlet forms. (English summary) **97a:35166**
Dereli, T. (*with* Schray, Jörg; Tucker, Robin W.) Finite action Yang-Mills solutions on the group manifold. (English summary) **97g:53028**
Diaconis, Persi (*with* Saloff-Coste, Laurent) An application of Harnack inequalities to random walk on nilpotent quotients. (English and French summaries) **97d:60113**
Driver, Bruce K. (*with* Lohrenz, Terry) Logarithmic Sobolev inequalities for pinned loop groups. (English summary) **97h:58176**
Duong, Xuan Thinh From the L^1 norms of the complex heat kernels to a Hörmander multiplier theorem for sub-Laplacians on nilpotent Lie groups. (English summary) **97h:43002**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Elliptic operators on Lie groups. (English summary) **97j:22026**
Fan, Da Shan (*with* Xu, Zeng Fu) Characterization of Lipschitz spaces on compact Lie groups. (English summary) **97a:43002**
— (*with* Xu, Zeng Fu) A Hörmander multiplier theorem on Besov spaces. (English and Chinese summaries) **97c:42025**
Gauduchon, Paul *see* **Biquard, Olivier, 97k:53040**
Guivarc'h, Yves Compactifications of symmetric spaces and positive eigenfunctions of the Laplacian. **97j:31012**
Guliev, V. S. Boundedness of singular integral operators on the Heisenberg group in weighted generalized Hölder spaces. (Russian. English summary) **97d:43011**
Hazod, Wilfried The role of harmonic analysis in limit theorems for probabilities on groups: a survey. (English summary) **97k:60015**
(Ji, Lizhen) *see* **Guivarc'h, Yves, 97j:31012**
Jiang, Dihua Degree 16 standard L-function of $GSp(2) \times GSp(2)$. (English summary) **97d:11081**
Jiang, Yaping The G-ellipticity for the sub-Laplacian on two step stratified Lie groups. (English summary) **97i:35021**
Jørgensen, Palle E. T. *see* **Batty, Charles J. K.; et al., 97f:35028**
Kelly-Lyth, D. (*with* McCrudden, M.) Supports of Gauss measures on semisimple Lie groups. **97k:60017**
Koufany, K. (*with* Ørsted, Bent) Function spaces on the Ol'shanskiĭ semigroup and the Gel'fand-Gindikin program. (English and French summaries) **97k:22021**
Liu, Heping The H^p boundedness of Riesz means on the Heisenberg group. (English summary) **97k:43013**
— Growth of the Fourier transforms of the weak Hardy spaces. **97c:43009**
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Lohrenz, Terry *see* **Driver, Bruce K., 97h:58176**
Ludwig, Jean (*with* Molitor-Braun, Carine) Algèbre de Schwartz d'un groupe de Lie nilpotent. [Schwartz algebra of a nilpotent Lie group] **97a:22009**
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Molitor-Braun, Carine *see* **Ludwig, Jean, 97a:22009**
Mosco, Umberto *see* **Biroli, Marco; et al., 97e:35015**
Müller, Detlef (*with* Ricci, Fulvio; Stein, Elias M.) Marcinkiewicz multipliers and multi-parameter structure on Heisenberg (-type) groups. II. **97c:43007**
Neuenschwander, Daniel (*with* Roynette, Bernard; Schott, René) Characterizations of Gaussian distributions on simply connected nilpotent Lie groups and symmetric spaces. (English and French summaries) **97k:60022**
Ørsted, Bent *see* **Koufany, K., 97k:22021**
Parasyuk, I. O. *see* **Samoilenko, A. M., 97a:58159**
Ricci, Fulvio *see* **Müller, Detlef; et al., 97c:43007**
Rigoli, Marco *see* **Brandolini, L.; et al., 97g:35024**
Robinson, Derek W. *see* **Batty, Charles J. K.; et al., 97f:35028** *and* **ter Elst, A. F. M., 97j:22026**
Roynette, Bernard *see* **Neuenschwander, Daniel; et al., 97k:60022**
Saloff-Coste, Laurent *see* **Diaconis, Persi, 97d:60113**
Samoilenko, A. M. (*with* Parasyuk, I. O.) Investigation of the integral of a function along the trajectories of a nilpotent flow. (Ukrainian. English and Ukrainian summaries) **97a:58159**
Schott, René Representations and probability theory. (English summary) **97f:60022**
— *see also* **Neuenschwander, Daniel; et al., 97k:60022**
Schray, Jörg *see* **Dereli, T.; et al., 97g:53028**
Schueth, Dorothee Line bundle Laplacians over isospectral nilmanifolds. (English summary) **97k:58173**
Setti, Alberto G. *see* **Brandolini, L.; et al., 97g:35024**
Shimeno, Nobukazu Boundary value problems for the Shilov boundary of a bounded symmetric domain of tube type. (English summary) **97f:32049**
Stade, Eric Mellin transforms of Whittaker functions on GL(4, **R**) and GL(4, **C**). **97c:11057**
Stein, Elias M. *see* **Müller, Detlef; et al., 97c:43007**
Su, Wei Yi *see* **Xiao, Changbai; et al., 97d:43004**
Svensson, Olof Nonadmissible convergence in symmetric spaces. **97g:43005**
(Taylor, John Christopher) *see* **Guivarc'h, Yves, 97j:31012**
Tchou, Nicoletta A. *see* **Biroli, Marco; et al., 97e:35015**
Tie, Jingzhi Imbedding C^1 into H_1. (English summary) **97b:43006**
Torossian, Charles Un théorème d'unicité pour les distributions sphériques sur l'espace tangent à un espace symétrique. (French summary) [A uniqueness theorem for spherical distributions on the tangent space of a symmetric space] **97k:43016**
Tucker, Robin W. *see* **Dereli, T.; et al., 97g:53028**
Tychopoulos, E. Lorentz spaces and Lie groups. (English summary) **97a:35274**
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Xiao, Changbai (*with* Zheng, Wei Xing; Su, Wei Yi) A constructive proof of the inversion formula for zonal functions on SL(2, **R**). (English summary) **97d:43004**
Xu, Zeng Fu *see* **Fan, Da Shan, 97a:43002** *and* **97c:42025**
Zheng, Wei Xing *see* **Xiao, Changbai; et al., 97d:43004; Liu, Jian Ming, 97g:44011**
Zhu, Fu-Liu Sur la transformation de Radon de $M_{2,n}(\mathbf{H})$. [Radon transform of $M_{2,n}(\mathbf{H})$] **97j:44006**

22E35 Analysis on p-adic Lie groups [see also 11R56]

Flicker, Yuval Z. Orbital integrals on symmetric spaces and spherical characters. (English summary) **97j:22022**
Kim, Yangkoo Some subregular germs for the p-adic $\mathrm{Sp}_4(F)$. (English summary) **97f:22018**
Lemaire, Bertrand Intégrales orbitales sur GL(N) et corps locaux proches. (English and French summaries) [Orbital integrals over GL(N) and neighboring local fields] **97i:22003**
Rader, Cary (*with* Rallis, Stephen) Spherical characters on p-adic symmetric spaces. **97c:22013**
Rallis, Stephen *see* **Rader, Cary, 97c:22013**
Vignéras, Marie-France ★ Représentations l-modulaires d'un groupe réductif p-adique avec $l \neq p$. (French. English summary) [l-modular representations of a reductive p-adic group with $l \neq p$] **97g:22007**

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Hales, Thomas C. The fundamental lemma for Sp(4). (English summary) **97c:22020**
Hida, Haruzo Control theorems of p-nearly ordinary cohomology groups for SL(n). (English and French summaries) **97c:11053**
Jantzen, Chris On the Iwahori-Matsumoto involution and applications. (English summary) **97b:22020**
Mœglin, C. Représentations quadratiques unipotentes des groupes classiques p-adiques. [Quadratic unipotent representation of the p-adic classical groups] **97h:22013**
Moy, Allen (*with* Prasad, Gopal) Jacquet functors and unrefined minimal K-types. (English summary) **97c:22021**
Prasad, Gopal *see* **Moy, Allen, 97c:22021**
Savin, Gordan K-types of minimal representations (p-adic case). (English summary) **97f:22030**
Shah, Riddhi Limits of commutative triangular systems on real and p-adic groups. **97e:60015**

22E40 Discrete subgroups of Lie groups [see also 20Hxx, 32Nxx]

Beardon, Alan F. ★ The geometry of discrete groups. (English summary) **97d:22011**
Bekka, Mohammed El Bachir (*with* Valette, Alain) Lattices in semi-simple Lie groups, and multipliers of group C^*-algebras. **97a:22015**
Benoist, Yves Actions propres sur les espaces homogènes réductifs. (English and French summaries) [Proper actions on reductive homogeneous spaces] **97j:22023**
Dani, S. G. Flows on homogeneous spaces and Diophantine approximation. **97g:22008**
Eskin, Alex (*with* Mozes, Shahar; Shah, Nimish A.) Unipotent flows and counting lattice points on homogeneous varieties. **97d:22012**
Fang, Ai Nong (*with* Jiang, Yue Ping; Fang, Ming[1]) On groups of Clifford matrices and Lie groups. (English summary) **97i:22004**
Fang, Ming[1] *see* **Fang, Ai Nong; et al., 97i:22004**
Feres, Renato Actions of discrete linear groups and Zimmer's conjecture. (English summary) **97a:22016**
Jiang, Yue Ping *see* **Fang, Ai Nong; et al., 97i:22004**
Katok, Anatole B. (*with* Lewis, James Welsh; Zimmer, Robert J.) Cocycle superrigidity and rigidity for lattice actions on tori. **97e:22009**
Lee, Soo Teck (*with* Packer, Judith A.) The cohomology of the integer Heisenberg groups. (English summary) **97k:22014**
Leuzinger, Enrico (*with* Pittet, Ch.) Isoperimetric inequalities for lattices in semisimple Lie groups of rank 2. (English summary) **97j:22024**
Lewis, James Welsh *see* **Katok, Anatole B.; et al., 97e:22009**
Mozes, Shahar *see* **Eskin, Alex; et al., 97d:22012**
Oh, Hee Discrete subgroups of $\mathrm{SL}_n(\mathbf{R})$ generated by lattices in horospherical subgroups. (English and French summaries) **97j:22025**
Packer, Judith A. *see* **Lee, Soo Teck, 97k:22014**
Pittet, Ch. *see* **Leuzinger, Enrico, 97j:22024**
Pollicott, Mark Infinitesimal rigidity of group actions with hyperbolic generators. (English summary) **97e:22010**
Qian, Nantian Tangential flatness and global rigidity of higher rank lattice actions. (English summary) **97e:22011**
Schwartz, Richard Evan The quasi-isometry classification of rank one lattices. (English summary) **97c:22014**
Shah, Nimish A. *see* **Eskin, Alex; et al., 97d:22012**
Soifer, G. A. Auslander's theorem on discontinuous semigroups and crystallographic semigroups. **97f:22019**
Valette, Alain *see* **Bekka, Mohammed El Bachir, 97a:22015**
Venkataramana, T. N. On the first cohomology of cocompact arithmetic groups. (English summary) **97k:22015**
Yue, Cheng Bo Mostow rigidity of rank 1 discrete groups with ergodic Bowen-Margulis measure. **97a:22017**
Zimmer, Robert J. *see* **Katok, Anatole B.; et al., 97e:22009**

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Apanasov, B. N. Varieties of discrete representations of hyperbolic 3-lattices. (English summary) **97h:57003**
Beardon, Alan F. Some remarks on non-discrete Möbius groups. (English summary) **97d:20063**
Burger, Marc Rigidity properties of group actions on CAT(0)-spaces. **97j:20033**
Choucroun, Francis M. Sous-groupes discrets des groupes p-adiques de rang un et arbres de Bruhat-Tits. (English summary) [Discrete subgroups of p-adic groups of rank one and Bruhat-Tits trees] **97d:22018**
Dahl, Erlend Cohomology cyclique des products croisés tordus. (French summary) [Cyclic cohomology of twisted crossed products] **97i:46127**
Dani, S. G. (*with* McCrudden, M.) Infinitely divisible probabilities on discrete linear groups. (English summary) **97e:60010**
Friedland, Shmuel Invariant measures of groups of homeomorphisms and Auslander's conjecture. (English summary) **97b:58086**
Geiges, Hansjörg (*with* Gonzalo, Jesús) Seifert invariants of left-quotients of 3-dimensional simple Lie groups. (English summary) **97a:57027**
Gilman, Jane Two-generator discrete subgroups of PSL(2, **R**). (English summary) **97a:20082**
Gonzalo, Jesús *see* **Geiges, Hansjörg, 97a:57027**
Greshnov, A. V. *see* **Vodop'yanov, S. K., 97b:53038**
Herrera, Blas (*with* Llabrés, Miquel; Reventós, Agustí) Transverse structure of Lie foliations. **97m:58215**
Hurder, Steven Infinitesimal rigidity for hyperbolic actions. **97f:58098**
Inoue, Katsumi[1] Margulis decomposition and translation lengths of discrete Möbius groups. **97c:57013**
Iozzi, A. (*with* Nevo, A.) Algebraic hulls and the Følner property. **97j:22011**
Katok, Anatole B. (*with* Spatzier, R. J.) Nonstationary normal forms and rigidity of group actions. (English summary) **97m:58149**
Kononenko, Alexey Vladimir Smooth cocycles rigidity for lattice actions. (English summary) **97c:58114**
Labourie, F. (*with* Mozes, Shahar; Zimmer, Robert J.) On manifolds locally modelled on non-Riemannian homogeneous spaces. **97j:53053**
Lee, Kyung Bai (*with* Raymond, Frank) Seifert manifolds with $\Gamma\backslash G/K$-fiber. **97i:57045**
Lee, Min Ho[1] Mixed automorphic forms on semisimple Lie groups. **97g:11049**
Levy, Jason A truncated Poisson formula for groups of rank at most two. **97b:11070**
Llabrés, Miquel *see* **Herrera, Blas; et al., 97m:58215**
Lubotzky, Alexander Free quotients and the first Betti number of some hyperbolic manifolds. (English summary) **97d:57016**
McCrudden, M. *see* **Dani, S. G., 97e:60010**
Miller, Stephen D. Spectral and cohomological applications of the Rankin-Selberg method. **97a:11079**
Mozes, Shahar *see* **Labourie, F.; et al., 97j:53053**
Neuenschwander, Daniel Triangular systems on discrete subgroups of simply connected nilpotent Lie groups. (English summary) **97j:60016**
Neumann, Walter D. (*with* Yang, Jun[1]) Invariants from triangulations of hyperbolic 3-manifolds. (English summary) **97d:57017**
Nevo, A. *see* **Iozzi, A., 97j:22011**
Onishchik, A. L. ★ Топология транзитивных групп преобразований. (Russian. English and Russian summaries) [Topology of transitive transformation groups] **97j:57057**

Parker, John R. Dirichlet polyhedra for parabolic cyclic groups in complex hyperbolic space. (English summary) **97b:32048**
Raghunathan, M. S. The first Betti number of compact locally symmetric spaces. **97a:11082**
Raymond, Frank *see* **Lee, Kyung Bai, 97i:57045**
Reventós, Agustí *see* **Herrera, Blas; et al., 97m:58215**
do Rocio, Osvaldo Germano (*with* San Martin, Luiz A. B.) Semigroups in lattices of solvable Lie groups. (English summary) **97d:22007**
San Martin, Luiz A. B. *see* **do Rocio, Osvaldo Germano, 97d:22007**
Schwartz, Richard Evan Quasi-isometric rigidity and Diophantine approximation. **97m:53093**
Serre, Jean-Pierre Exemples de plongements des groupes $\mathrm{PSL}_2(\mathbf{F}_p)$ dans des groupes de Lie simples. [Examples of embeddings of the groups $\mathrm{PSL}_2(\mathbf{F}_p)$ into simple Lie groups] **97d:20056**
Spatzier, R. J. *see* **Katok, Anatole B., 97m:58149**
Vodop'yanov, S. K. (*with* Greshnov, A. V.) Analytic properties of quasiconformal mappings on Carnot groups. (Russian. Russian summary) **97b:53038**
Witte, David Riley Correction to: "Zero-entropy affine maps on homogeneous spaces" [Amer. J. Math. **109** (1987), no. 5, 927–961; MR 88i:28038]. (English summary) **97j:28043**
Xia, Eugene Z. Components of $\mathrm{Hom}(\pi_1, \mathrm{PGL}(2, \mathbf{R}))$. (English summary) **97j:57002**
Yang, Jun[1] *see* **Neumann, Walter D., 97d:57017**
Zimmer, Robert J. *see* **Labourie, F.; et al., 97j:53053**

22E41 Continuous cohomology [see also 57R32, 57Txx, 58H10]

Items with secondary classifications in 22E41

Borel, Armand (*with* Labesse, Jean-Pierre; Schwermer, J.) On the cuspidal cohomology of S-arithmetic subgroups of reductive groups over number fields. **97j:11026**
Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
Labesse, Jean-Pierre *see* **Borel, Armand; et al., 97j:11026**
Li, Jian-Shu Two reductive dual pairs in groups of type E. **97j:22037**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**
Schwermer, J. *see* **Borel, Armand; et al., 97j:11026**

22E43 Structure and representation of the Lorentz group

Items with secondary classifications in 22E43

Kuhn, Maria Gabriella (*with* Vershik, A. M.) Canonical states on the group of automorphisms of a homogeneous tree. **97g:43001**
Mukunda, N. Expansors and expinors: Dirac, Harish-Chandra and the Lorentz group. (*see* **96d:00028**)
Pavlotskiĭ, I. P. (*with* Strianese, M.) Irreversibility in classical mechanics as a consequence of Poincaré group. (English summary) **97j:70012**
Srinivasa Rao, K. N. ★ Linear algebra and group theory for physicists. (English summary) **97m:20001**
Strianese, M. *see* **Pavlotskiĭ, I. P., 97j:70012**
Vershik, A. M. *see* **Kuhn, Maria Gabriella, 97g:43001**

22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}

Bröcker, Theodor (*with* tom Dieck, Tammo) ★ Representations of compact Lie groups. (English summary) **97i:22005**
Charbonnel, Jean-Yves Orbites fermées et orbites tempérées. II. [Closed orbits and tempered orbits. II] **97e:22012**
Chuah, Meng-Kiat Kaehler structures on $K_C/(P, P)$. (English summary) **97k:22016**
Davidson, M. G. (*with* Fabec, R. C.) Geometric realizations for highest weight representations. (English summary) **97a:22018**
tom Dieck, Tammo *see* **Bröcker, Theodor, 97i:22005**
ter Elst, A. F. M. (*with* Robinson, Derek W.) Elliptic operators on Lie groups. (English summary) **97j:22026**
— (*with* Robinson, Derek W.) Analytic elements of Lie groups. (English summary) **97k:22017**
Fabec, R. C. *see* **Davidson, M. G., 97a:22018**
Huang, Jing-Song (*with* Pandžić, Pavle; Savin, Gordan) New dual pair correspondences. **97c:22015**
Kachurik, I. I. (*with* Klimyk, A. U.) Operator spectra for quantum algebras and q-orthogonal polynomials. (English summary) **97c:22016**
Klimyk, A. U. *see* **Kachurik, I. I., 97c:22016**
Lisiecki, Wojciech Coherent state representations. A survey. (English summary) **97c:22017**
Neeb, Karl-Hermann Holomorphic representations and coherent states. (English summary) **97e:22013**
— Holomorphic representations of Ol'shanskiĭ semigroups. **97b:22017**
— Coherent states, holomorphic extensions, and highest weight representations. (English summary) **97k:22018**
Ohta, Takuya The associated variety of canonical representations of a real algebraic group and an introduction to nilpotent orbits. (Japanese. Japanese summary) **97f:22020**
Pandžić, Pavle *see* **Huang, Jing-Song; et al., 97c:22015**
Robinson, Derek W. *see* **ter Elst, A. F. M., 97j:22026** *and* **97k:22017**
Savin, Gordan *see* **Huang, Jing-Song; et al., 97c:22015**
Sultanov, Sh. Sh. The nonunitary part of the tensor product of two representations of the group $\mathrm{SO}_0(n-1, 1)$, one of which is unitary in an indefinite metric. (Russian) **97a:22019**
Sviderskiĭ, O. S. Decomposition of a vector field in a parallelized induced bundle. (English summary) **97j:22027**

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Barchini, L. (*with* Eastwood, Michael G.; Gover, A. Rod) An integral operator into Dolbeault cohomology. (English summary) **97f:32045**
— Boundary value maps, Szegő maps and intertwining operators. (English summary) **97h:22009**
Bijker, Roelof *see* **Santopinto, Elena; et al., 97d:81060**
Dai, Lianrong *see* **Pan, Feng, 97j:20041** *and* **97j:20042**
Eastwood, Michael G. *see* **Barchini, L.; et al., 97f:32045**
Gover, A. Rod *see* **Barchini, L.; et al., 97f:32045**
Hilgert, Joachim (*with* Neeb, Karl-Hermann) Symplectic convexity theorems, Lie semigroups, and unitary representations. **97b:58058**
Huang, Jing-Song (*with* Oshima, Toshio; Wallach, Nolan R.) Dimensions of spaces of generalized spherical functions. (English summary) **97d:22015**
Iachello, Francesco *see* **Santopinto, Elena; et al., 97d:81060**
Khalgui, M. S. (*with* Torasso, Pierre) La formule de Poisson-Plancherel pour un groupe presque algébrique réel. II. (English and French summaries) [The Poisson-Plancherel formula for a real almost algebraic group. II] **97m:22002**
Kori, Tosiaki Lie algebra of the infinitesimal automorphisms on S^3 and its central extension. **97b:17015**
Molchanov, V. F. Quantization on para-Hermitian symmetric spaces. **97k:22030**
Mordasheva, T. L. Canonical coordinates on orbits of the coadjoint representation of some semidirect products of Lie groups. (Russian) **97c:58058**
Nahlus, Nazih Note on faithful representations and a local property of Lie groups. (English summary) **97j:22018**
Neeb, Karl-Hermann *see* **Hilgert, Joachim, 97b:58058**
Neretin, Yu. A. The group of diffeomorphisms of a ray, and random Cantor sets. (Russian. Russian summary) **97i:22008**
Oshima, Toshio *see* **Huang, Jing-Song; et al., 97d:22015**
Pan, Feng (*with* Dai, Lianrong) Subduction coefficients of Brauer algebras and Racah coefficients of $\mathrm{O}(n)$ and $\mathrm{Sp}(2m)$. I. Subduction coefficients. (English summary) **97j:20041**
— (*with* Dai, Lianrong) Subduction coefficients of Brauer algebras and Racah coefficients of $\mathrm{O}(n)$ and $\mathrm{Sp}(2m)$. II. Racah coefficients. (English summary) **97j:20042**
Rossmann, Wulf Contour path integrals: definitions and examples. (English summary) **97e:58211**
Santopinto, Elena (*with* Bijker, Roelof; Iachello, Francesco) Transformation brackets between $\mathrm{U}(v+1) \supset \mathrm{U}(v) \supset \mathrm{SO}(v)$ and $\mathrm{U}(v+1) \supset \mathrm{SO}(v+1) \supset \mathrm{SO}(v)$. (English summary) **97d:81060**
Shia'ya, Hitoshi Banach representability for the group $G = \mathbf{R}^n \rtimes \mathrm{SO}(n)$. (English summary) **97j:22008**
Torasso, Pierre ★ Méthode des orbites de Kirillov-Duflo et représentations minimales des groupes simples sur un corps local de caractéristique nulle. (French. English and French summaries) [Kirillov-Duflo orbit method and minimal representations of simple groups over a local field of characteristic zero] **97h:22014**
— *see also* **Khalgui, M. S., 97m:22002**
Wallach, Nolan R. *see* **Huang, Jing-Song; et al., 97d:22015**

22E46 Semisimple Lie groups and their representations

Bakre, M. S. Multiplicity formulas for finite-dimensional and generalized principal series representations. (English summary) **97k:22019**
van den Ban, Erik P. (*with* Carmona, Jacques; Delorme, Patrick) Paquets d'ondes dans l'espace de Schwartz d'un espace symétrique réductif. (English summary) [Wave packets in the Schwartz space of a reductive symmetric space] **97f:22021**
Barchini, L. Boundary value maps, Szegő maps and intertwining operators. (English summary) **97h:22009**
Branson, Thomas (*with* Ólafsson, Gestur; Ørsted, Bent) Spectrum generating operators and intertwining operators for representations induced from a maximal parabolic subgroup. (English summary) **97g:22009**
Cahen, Benjamin Deformation program for principal series representations. (English summary) **97a:22020**
Čap, Andreas A note on endomorphisms of modules over reductive Lie groups and algebras. (English summary) **97g:22010**
Carmona, Jacques *see* **van den Ban, Erik P.; et al., 97f:22021**
Chadli, Mohammed Domaine complexe associé à un espace symétrique de type Cayley. (English and French summaries) [Complex domain associated to a symmetric space of Cayley type] **97f:22022**
Clerc, Jean-Louis Laplace transform and unitary highest weight modules. (English summary) **97e:22014**
Damianou, Pantelis A. Transverse Poisson structures of coadjoint orbits. (English and French summaries) **97h:22010**
Duszkiewicz, Andrzej (*with* Przebinda, Tomasz) The oscillator character formula, for isometry groups of split forms in deep stable range. (English summary) **97f:22023**
Delorme, Patrick *see* **van den Ban, Erik P.; et al., 97f:22021**
De Mari, Filippo The Weyl group as fixed point set of smooth involutions. (English summary) **97f:22024**
Do Ngoc Diep Multidimensional quantization and the degenerate principal series representations. **97j:22028**
Dooley, Anthony H. (*with* Zhang, Gen Kai) Generalized principal series representations of $\mathrm{SL}(1+n, \mathbf{C})$. (English summary) **97j:22029**
Eguchi, Masaaki (*with* Koizumi, Shin) Determination of the Harish-Chandra C-function for $\mathrm{SU}(n, 1)$ and its application to the construction of the composition series. (English summary) **97d:22013**
Gindikin, Simon G. The holomorphic Cauchy-Szegő kernel for nonholomorphic discrete series representations of $\mathrm{SU}(2, 1)$. (English summary) **97a:22021**
Godfrin, Dominique Calcul symbolique lié à la série principale de $\mathrm{SL}(2, \mathbf{C})$. (English and French summaries) [Principal series of $\mathrm{SL}(2, \mathbf{C})$ and symbolic calculi] **97e:22015**
Greenlees, J. P. C. (*with* Pérez, Juan Antonio) Connected Lie groups that act freely on a product of linear spheres. (English summary) **97j:22030**

Herb, Rebecca A. The Schwartz space of a general semisimple Lie group. V. Schwartz class wave packets. (English summary) **97h:22011**

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Hou, Zixin (*with* Zhao, Qiang) The complete Langlands parameters corresponding to the representations of the classical groups with integral regular infinitesimal characters. (English summary) **97f:22025**

Huang, Jing-Song (*with* Oshima, Toshio; Wallach, Nolan R.) Dimensions of spaces of generalized spherical functions. (English summary) **97d:22015**

King, Donald R. Projections of measures on nilpotent orbits and asymptotic multiplicities of K-types in rings of regular functions. II. (English summary) **97d:22016**

King, Ronald Curtis (*with* Wybourne, B. G.) The place of the adjoint representation in the Kronecker square of irreducible representations of simple Lie groups. (English summary) **97k:22020**

Knapp, Anthony W. Exceptional unitary representations of semisimple Lie groups. (English summary) **97m:22005**

Koizumi, Shin *see* **Eguchi, Masaaki, 97d:22013**

Koufany, K. (*with* Ørsted, Bent) Function spaces on the Ol′shanskiĭ semigroup and the Gel′fand-Gindikin program. (English and French summaries) **97k:22021**

Lee, Soo Teck Degenerate principal series representations of $Sp(2n, \mathbf{R})$. (English summary) **97i:22006**

Lipsman, Ronald L. The Plancherel formula for the horocycle space and generalizations. (English summary) **97j:22032**

Liu, Jian Ming (*with* Zheng, Wei Xing) The decomposition of the representations T^v and the Plancherel formula for the universal covering group of $SU(1, 1)$. (English summary) **97b:22018**

Neeb, Karl-Hermann *see* **Hilgert, Joachim; et al., 97d:22014**

Neretin, Yu. A. (*with* Ol′shanskiĭ, G. I.) Boundary values of holomorphic functions, singular unitary representations of the groups $O(p, q)$ and their limits as $q \to \infty$. (Russian. English and Russian summaries) **97c:22018**

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Ol′shanskiĭ, G. I. Cauchy-Szegő kernels for Hardy spaces on simple Lie groups. (English and French summaries) **97k:22022**

— *see also* **Neretin, Yu. A., 97c:22018**

Ørsted, Bent (*with* Zhang, Gen Kai) L^2-versions of the Howe correspondence. II. (English summary) **97j:22033**

— *see also* **Hilgert, Joachim; et al., 97d:22014**; **Branson, Thomas; et al., 97g:22009** *and* **Koufany, K., 97k:22021**

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Prakash, J. S. Wigner's D-matrix elements for SU(3)—a generating function approach. (English summary) **97j:22034**

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Sepanski, Mark R. Kostant's conjecture and the geometry of Cartan subalgebras in the rank two and exceptional cases. (English summary) **97e:22016**

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Wallach, Nolan R. *see* **Huang, Jing-Song; et al., 97d:22015**

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Zhang, Gen Kai Jordan algebras and generalized principal series representations. **97h:22012**

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Zheng, Wei Xing *see* **Liu, Jian Ming, 97b:22018**

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Benkart, Georgia Commuting actions—a tale of two groups. (English summary) **97g:17003**

Benson, Chal (*with* Ratcliff, Gail) A classification of multiplicity free actions. (English summary) **97c:14046**

Cishahayo, C. Inönü-Wigner contraction of kinematical group representations. (English summary) **97c:81052**

Cortés Suárez, Vicente *see* **Alekseevskiĭ, D. V., 97k:17006**

Djoković, Dragomir Ž. (*with* Nguyễn Quôc Thắng) On the exponential map of almost simple real algebraic groups. (English summary) **97e:22007**

Dokken, Douglas Paul Nonprobabilistic computation of the Poisson boundary for an étalée measure on a semi-simple Lie group. **97g:43004**

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Gauthier, J. P. *see* **El Assoudi, R.; et al., 97g:93013**

Goza, N. I. Algebras with an irreducible nonmaximal automorphism group. (Russian) **97k:22026**

Grigore, D. R. The projective unitary irreducible representations of the Galilei group in $1 + 2$ dimensions. (English summary) **97d:22024**

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Hilgert, Joachim (*with* Ólafsson, Gestur) ★ Causal symmetric spaces. (English summary) **97m:43006**

Huang, Jing-Song (*with* Pandžić, Pavle; Savin, Gordan) New dual pair correspondences. **97c:22015**

Jakobsen, Hans Plesner An intrinsic classification of the unitarizable highest weight modules as well as their associated varieties. (English summary) **97e:17008**

Jaworski, Wojciech The density of the image of the exponential function and spacious locally compact groups. (English summary) **97c:22005**

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— (*with* Ton-That, T.) Multiplicity, invariants, and tensor product decompositions of compact groups. (English summary) **97j:81094**

Koseki, Harutaka (*with* Oda, Takayuki) Whittaker functions for the large discrete series representations of SU(2, 1) and related zeta integrals. (English summary) **97d:11082**

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Lee, Min Ho[1] Mixed automorphic forms on semisimple Lie groups. **97g:11049**

Leung, E. Y. *see* **Klink, W. H.; et al., 97c:22010**

Leuzinger, Enrico (*with* Pittet, Ch.) Isoperimetric inequalities for lattices in semisimple Lie groups of rank 2. (English summary) **97j:22024**

Liu, Jian Ming (*with* Zheng, Wei Xing) A complex weighted Plancherel formula and the Jacobi transform. (Chinese)

Long, Gui Lu Algebraic expressions for $SU(3) \supset R(3)$ Wigner coefficients for $(\lambda\, 0) \times (3\, 0)$. (English summary) **97b:81033**

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Montagard, Pierre-Louis Une nouvelle propriété de stabilité du pléthysme. [A new stability of plethysm] **97m:20054**

Mostafazadeh, Ali Geometric phase, bundle classification, and group representation. (English summary) **97c:58059**

Neeb, Karl-Hermann Holomorphic representations of Ol′shanskiĭ semigroups. **97b:22017**

Nguyễn Quôc Thắng *see* **Djoković, Dragomir Ž., 97e:22007**

Nyssen, Louise ★ Trois résultats à propos des formes automorphes et des représentations. (French. French summary) [Three results concerning automorphic forms and representations] **97i:11057**

Oda, Takayuki *see* **Koseki, Harutaka, 97d:11082**

Ohta, Takuya The associated variety of canonical representations of a real algebraic group and an introduction to nilpotent orbits. (Japanese. Japanese summary) **97f:22020**

Ólafsson, Gestur *see* **Hilgert, Joachim, 97m:43006**

Pandžić, Pavle *see* **Huang, Jing-Song; et al., 97c:22015**

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Platonov, S. S. Invariant subspaces in some function spaces on symmetric spaces. I. (Russian. Russian summary) **97d:43013**

Ratcliff, Gail *see* **Benson, Chal, 97c:14046**

Reshetikhin, N. (*with* Voronov, Alexander A.; Weinstein, Alan D.) Semiquantum geometry. **97m:58015**

Savin, Gordan *see* **Huang, Jing-Song; et al., 97c:22015**

Schwartz, Richard Evan The quasi-isometry classification of rank one lattices. (English summary) **97c:22014**

Sekiguchi, Hideko Geometric realization of certain irreducible unitary representations of $U(n, n)$ and the Penrose transform. (Japanese. Japanese summary) **97i:32038**

Sepanski, Mark R. Kostant's conjecture and $L_2(q)$ invariant theory in the rank two Lie groups. **97g:20020**

Shimeno, Nobukazu Harmonic analysis on homogeneous vector bundles on hyperbolic spaces. **97b:43008**

Soergel, Wolfgang The Hochschild cohomology ring of regular maximal primitive quotients of enveloping algebras of semisimple Lie algebras. (English summary) **97e:17016**

Taniguchi, Kenji Discrete series Whittaker functions of $SU(n, 1)$ and $Spin(2n, 1)$. (English summary) **97m:22003**

Ton-That, T. *see* **Klink, W. H.; et al., 97c:22010** *and* **97j:81094**

Torasso, Pierre ★ Méthode des orbites de Kirillov-Duflo et représentations minimales des groupes simples sur un corps local de caractéristique nulle. (French. English and French summaries) [Kirillov-Duflo orbit method and minimal representations of simple groups over a local field of characteristic zero] **97h:22014**

Unterberger, André (*with* Unterberger, Julianne) Algebras of symbols and modular forms. (English summary) **97i:11044**

Unterberger, Julianne *see* **Unterberger, André, 97i:11044**

Voronov, Alexander A. *see* **Reshetikhin, N.; et al., 97m:58015**

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Wüstner, Michael On the surjectivity of the exponential function of complex algebraic, complex semisimple, and complex splittable Lie groups. (English summary) **97j:22014**

Yamashita, Hiroshi *see* **Yoshinaga, Tetsumi, 97m:22007**

Yoshinaga, Tetsumi (*with* Yamashita, Hiroshi) The embeddings of discrete series into principal series for an exceptional real simple Lie group of type G_2. **97m:22007**

Zheng, Wei Xing *see* **Liu, Jian Ming**

22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [see also 17B35]

Levasseur, T. (*with* Stafford, J. T.) The kernel of an homomorphism of Harish-Chandra. (English summary) **97b:22019**

Li, Jian-Shu Two reductive dual pairs in groups of type E. **97j:22037**

Salamanca-Riba, Susana A. On the unitary dual of the classical Lie groups, representations of $Sp(p, q)$. (English summary) **97m:22006**

Slupinski, M. J. A Hodge type decomposition for spinor valued forms. (English summary) **97a:22022**

Stafford, J. T. *see* **Levasseur, T., 97b:22019**

Yamamoto, Atsuko[2] Orbits in the flag variety and images of the moment map for $U(p, q)$. **97g:22011**

Yamashita, Hiroshi *see* **Yoshinaga, Tetsumi, 97m:22007**
Yoshinaga, Tetsumi (*with* Yamashita, Hiroshi) The embeddings of discrete series into principal series for an exceptional real simple Lie group of type G_2. **97m:22007**

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Branson, Thomas (*with* Ólafsson, Gestur; Ørsted, Bent) Spectrum generating operators and intertwining operators for representations induced from a maximal parabolic subgroup. (English summary) **97g:22009**
Brion, Michel Plethysm and Verma modules. **97d:20048**
Frenkel, Edward Affine algebras, Langlands duality and Bethe ansatz. **97k:17036**
Knapp, Anthony W. Exceptional unitary representations of semisimple Lie groups. (English summary) **97m:22005**
Montagard, Pierre-Louis Une nouvelle propriété de stabilité du pléthysme. [A new stability of plethysm] **97m:20054**
Neeb, Karl-Hermann Holomorphic representations of Ol'shanskiĭ semigroups. **97b:22017**
Ólafsson, Gestur *see* **Branson, Thomas; et al., 97g:22009**
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22E50 Representations of Lie and linear algebraic groups over local fields

Adler, J. D. Self-contragredient supercuspidal representations of GL_n. (English summary) **97j:22038**
Alberverio, Sergio (*with* Khrennikov, A. Yu.) Representations of the Weyl group in spaces of square integrable functions with respect to p-adic valued Gaussian distributions. (English summary) **97j:22039**
Aubert, Anne-Marie Erratum: "Duality in the Grothendieck group of the category of finite-length smooth representations of a p-adic reductive group" [Trans. Amer. Math. Soc. **347** (1995), no. 6, 2179–2189; MR 95i:22025]. (French) **97c:22019**
Broussous, Paul ★ Le dual admissible d'une algèbre à division locale: une paramétrisation par des types simples à la Bushnell et Kutzko. (French. French summary) [Admissible dual of a local division algebra: a parametrization by simple types à la Bushnell and Kutzko] **97i:22007**
— Extension du formalisme de Bushnell et Kutzko au cas d'une algèbre à division. (English and French summaries) [Extension of Bushnell and Kutzko's classification to the division algebra case] **97f:22028**
Bushnell, Colin J. Smooth representations of p-adic groups: the role of compact open subgroups. **97g:22012**
Chae, Hi-joon An introduction to representations of $GL_2(F)$. **97j:22040**
Choucroun, Francis M. Sous-groupes discrets des groupes p-adiques de rang un et arbres de Bruhat-Tits. (English summary) [Discrete subgroups of p-adic groups of rank one and Bruhat-Tits trees] **97d:22018**
Cogdell, J. W. (*with* Piatetski-Shapiro, I. I.) A converse theorem for GL_4. **97d:22019**
Glöckner, Helge Haar measure on linear groups over local skew fields. (English summary) **97k:22023**
Hales, Thomas C. The fundamental lemma for Sp(4). (English summary) **97e:22020**
Jantzen, Chris On the Iwahori-Matsumoto involution and applications. (English summary) **97b:22020**
— Degenerate principal series for symplectic and odd-orthogonal groups. (English summary) **97d:22020**
Khrennikov, A. Yu. *see* **Alberverio, Sergio, 97j:22039**
Kim, Donggyun Explicit forms of local lifting for GL_2. (English summary) **97d:22021**
Lemaire, Bertrand Intégrabilité locale des caractères-distributions de $GL_N(F)$ où F est un corps local non-archimédien de caractéristique quelconque. [Local integrability of character-distributions of $GL_N(F)$, when F is a non-Archimedean local field of any characteristic] **97a:22023**
Li, Jian-Shu (*with* Zhu, Chen-Bo) On the decay of matrix coefficients for exceptional groups. **97f:22029**
Mœglin, C. Quadratic unipotent representations of p-adic groups. **97b:22021**
— Représentations quadratiques unipotentes des groupes classiques p-adiques. [Quadratic unipotent representation of the p-adic classical groups] **97h:22013**
Morris, Lawrence Tamely ramified supercuspidal representations. (English summary) **97g:22013**
Moy, Allen (*with* Prasad, Gopal) Jacquet functors and unrefined minimal K-types. (English summary) **97e:22021**
Mozes, Shahar Actions of Cartan subgroups. (English summary) **97b:22022**
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Zgliczyński, Piotr *see* **Sitarz, Andrzej, 97g:17018**

22E99 None of the above, but in this section

Suzuki, Masuo Exponential product formula and Lie algebra. (English summary) **97k:22031**

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Adler, Stephen L. Projective group representations in quaternionic Hilbert space. (English summary) **97e:81040**
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Lyudkovskiĭ, S. V. Exotic groups and quotient groups of loop groups. (Russian. Russian summary) **97a:22025**
Porteous, Ian R. ★ Clifford algebras and the classical groups. (English summary) **97c:15046**
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Umehara, Masaaki (*with* Yamada, Kōtarō) Deformations of Lie groups and their application to surface theory. **97a:53005**
Yamada, Kōtarō *see* **Umehara, Masaaki, 97a:53005**

26–XX Real functions [see also 54C30]

26–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Boas, Harold P.) *see* **Boas, Ralph P., 97f:26001**
Boas, Ralph P. ★ A primer of real functions. (English summary) **97f:26001**
Kannan, Rangachary (*with* Krueger, Carole King) ★ Advanced analysis on the real line. (English summary) **97m:26001**
Krueger, Carole King *see* **Kannan, Rangachary, 97m:26001**

Items with secondary classifications in 26–01

Barbeau, E. J. ★ Polynomials. **97e:00002**
Browder, Andrew ★ Mathematical analysis. (English summary) **97g:00001**
Mawhin, Jean L. ★ Analyse. (French. French summary) [Analysis] **97k:00001**
McKinzie, Mark (*with* Tuckey, Curtis) Nonstandard methods in the precalculus curriculum. (*see* **97a:00043**)
Shafranov, E. V. *see* **Sviridyuk, G. A., 97e:00001**
Shilov, G. E. ★ Elementary real and complex analysis. (English summary) **97a:00003**
(Silverman, Richard A.) *see* **Shilov, G. E., 97a:00003**
Storch, Uwe (*with* Wiebe, Hartmut) ★ Lehrbuch der Mathematik. Band 1. (German) [Textbook of mathematics. Vol. 1]
Sviridyuk, G. A. (*with* Shafranov, E. V.) ★ Поверхностные интегралы. Функциональные последовательности и ряды. (Russian. Russian summary) [Surface integrals. Function sequences and series] **97e:00001**
Tuckey, Curtis *see* **McKinzie, Mark, (97a:00043)**
Wiebe, Hartmut *see* **Storch, Uwe**

26–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 26–02

Borwein, Peter (*with* Erdélyi, Tamás) ★ Polynomials and polynomial inequalities. **97e:41001**
Erdélyi, Tamás *see* **Borwein, Peter, 97e:41001**
Rockafellar, R. Tyrrell ★ Convex analysis. (English summary) **97m:49001**

26–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 26–03

Acker, Felipe The missing link. **97i:01014**
(Appell, Paul) *see* **Greenhill, Alfred George, 97b:01027**
Baire, René ★ Leçons sur les fonctions discontinues. (French) [Lessons on discontinuous functions] **97m:01101a**
Blay, Michel Du système de l'infini au statut des nombres incommensurables dans les *Élémens de la géométrie* de Fontenelle. [From the system of the infinite to the status of incommensurable numbers in Fontenelle's *Elements of geometry*] **97g:01011**
Bos, Henk J. M. Johann Bernoulli on exponential curves, ca. 1695: innovation and habituation in the transition from explicit constructions to implicit functions. **97e:01007**
Du Bois-Reymond, Paul ★ Théorie générale des fonctions. (French) [General theory of functions] **97m:01103**
Flashman, Martin E. Historical motivation for a calculus course: Barrow's theorem. (*see* **97a:01003**)
(Girot, A.) *see* **Du Bois-Reymond, Paul, 97m:01103**
Grabiner, Judith V. The calculus as algebra, the calculus as geometry: Lagrange, Maclaurin, and their legacy. **97e:01011**
Greenhill, Alfred George ★ Les fonctions elliptiques et leurs applications. (French) [Applications of elliptic functions] **97b:01027**
(Griess, J.) *see* **Greenhill, Alfred George, 97b:01027**
Jahnke, Hans Niels The development of algebraic analysis from Euler to Klein and its impact on school mathematics in the 19th century. **97b:01011**
Kaijser, Sten The curving road to the calculus. (Swedish. English summary) **97j:01001**
(Milhaud, G.) *see* **Du Bois-Reymond, Paul, 97m:01103**
(Pang, Peter Y. H.) *see* **Siu, Man Keung, 97f:01004** *and* **97k:01002**
Schreiber, Peter The Cauchy-Bunyakovsky-Schwarz inequality. **97i:01022**
Siu, Man Keung Integration in finite terms: from Liouville's work to the calculus classroom of today. (*see* **97a:01003**)
— The story of calculus. I. **97f:01004**
— The story of calculus. II. **97k:01002**

26–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 26–06

(Bandle, C.) *see* **General inequalities, 97m:00025**
(Everitt, W. N.) *see* **General inequalities, 97m:00025**
(Losonczi, László) *see* **General inequalities, 97m:00025**
(Walter, Wolfgang L.) *see* **General inequalities, 97m:00025**

Items listed otherwise than by author

Conference:
General Inequalities ★ General inequalities. 7. **97m:00025**
General inequalities ★ General inequalities. 7. **97m:00025**
Oberwolfach ★ General inequalities. 7. **97m:00025**
Symposium:
Real Analysis ★ Summer Symposium in Real Analysis. XX. **97h:00015**
Windsor, ON ★ Summer Symposium in Real Analysis. XX. **97h:00015**

26Axx Functions of one variable

Items with secondary classifications in 26Axx

Du Bois-Reymond, Paul ★ Théorie générale des fonctions. (French) [General theory of functions] **97m:01103**
(Girot, A.) *see* **Du Bois-Reymond, Paul, 97m:01103**
(Milhaud, G.) *see* **Du Bois-Reymond, Paul, 97m:01103**

26A03 Foundations: limits and generalizations, elementary topology of the line

Balcerzak, Marek (*with* Wojdowski, Wojciech) Some properties of (Φ)-uniformly symmetrically porous sets. (English summary) **97c:26001**
Bridger, Mark Dynamic function visualization.
Evans, Michael Jon (*with* O'Malley, Richard J.) Fine tuning the recoverability of Baire one functions. (English summary) **97c:26002**
Feng, Tian Chang (*with* Li, Xi He) Relations among some important point sets associated with a function $f(x)$ defined on a point set E. (Chinese. English and Chinese summaries) **97c:26003**
Freiling, Chris (*with* Vallin, Robert W.) Simultaneous recovery of Baire one functions. (English summary) **97h:26001**
Li, Xi He *see* **Feng, Tian Chang, 97c:26003**
O'Malley, Richard J. *see* **Evans, Michael Jon, 97c:26002**
Pkhakadze, Sh. Quantifiers in mathematical analysis. (Russian. English and Georgian summaries)
Vallin, Robert W. *see* **Freiling, Chris, 97h:26001**
Wojdowski, Wojciech *see* **Balcerzak, Marek, 97c:26001**
Xie, Tai Guang Finding the limits of a certain class of sums. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26A03

Ciesielski, Krzysztof² (*with* Szyszkowski, Marcin) A symmetrically continuous function which is not countably continuous. (English summary) **97h:26002**
Hasan, Emad El-Din H. *see* **Khalifa, Azza K., 97k:03069**
Khalifa, Azza K. (*with* Hasan, Emad El-Din H.) Constructive Dedekind cuts. (English summary) **97k:03069**
Szyszkowski, Marcin *see* **Ciesielski, Krzysztof², 97h:26002**
Wilczyński, Władysław (*with* Wojdowski, Wojciech) Upper and lower limits with respect to the m-ideal. (English and Polish summaries) **97f:28009**
Wojdowski, Wojciech *see* **Wilczyński, Władysław, 97f:28009**

26A06 One-variable calculus

Cao, Yucheng (*with* Dong, Jintian) The limit of certain sequence of integrals. (English and Chinese summaries) **97b:26001**
Deng, Kang The asymptotic behavior of mean value points for integrals of a class of functions. (Chinese. English and Chinese summaries) **97i:26001**
Dong, Jintian *see* **Cao, Yucheng, 97b:26001**
Finta, Béla A generalization of the Lagrange mean value theorem.
Gao, Qi Sheng *see* **Zhong, Bao Dong; et al.**
Liu, Ze Qing A note on generalized mean value theorem. (English and Malayan summaries)
Ma, Quan Zhong *see* **Zhao, Yu Chun, 97m:26002**
Novikov, S. I. Generalization of the Rolle theorem. (*see* **97c:00051**)
Sun, Xie Hua A generalization of Taylor's formula and its application. (Chinese. Chinese summary) **97a:26001**
— A generalization of Rolle's theorem and Rota's problem. (Chinese. English and Chinese summaries)
Tang, Guang Song (*with* Zhou, Xun) Some formulas for solving $f'(h(x)) = g(x)$. (Chinese)
Wu, Zi Ku *see* **Zhong, Bao Dong; et al.**
Zhang, Bao Lin¹ A note on the mean value theorem for integrals.
Zhao, Yu Chun (*with* Ma, Quan Zhong) Asymptotics of the mean value point in the general mean value theorem for integrals. (Chinese. English and Chinese summaries) **97m:26002**
Zhong, Bao Dong (*with* Wu, Zi Ku; Gao, Qi Sheng) A discussion of the convergence of a class of regular lacunary power series. (Chinese. English and Chinese summaries)
Zhou, Xun *see* **Tang, Guang Song**

Items with secondary classifications in 26A06

Bos, Henk J. M. Johann Bernoulli on exponential curves, ca. 1695: innovation and habituation in the transition from explicit constructions to implicit functions. **97e:01007**
Gurin, Leo S. A problem. **97h:40001**
Rogers, Jack W., Jr. Applications of linear algebra in calculus. (English summary) **97j:15001**

26A09 Elementary functions

Anisca, Răzvan *see* **Popovici, Florin; et al.**
Bencze, Mihály *see* **Popovici, Florin; et al.**
Meyerson, Mark D. The x^x spindle. **97c:26004**
Nilzeki, Syozo (*with* Sasaki, Masato) Remarks on the integral of $\exp(-x^2)$ over $\mathbf{R}$. **97j:26001**
Popovici, Florin (*with* Anisca, Răzvan; Bencze, Mihály) Regarding the calculus of real integrals using the residue theorem.
Sasaki, Masato *see* **Nilzeki, Syozo, 97j:26001**
Sinnadurai, J. St. C. L. On a useful lemma for positive functions. (English summary)
Tilton, Homer B. Strong limits & infinitesimal hysteresis.

Items with secondary classifications in 26A09

Brown, Herbert I. (*with* Burgmeier, James W.; Dummit, David S.) Functions whose successive tangent lines enclose proportional areas. **97h:26005**
Burgmeier, James W. *see* **Brown, Herbert I.; et al., 97h:26005**
Dummit, David S. *see* **Brown, Herbert I.; et al., 97h:26005**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

de Haan, Laurens (*with* Stadtmüller, Ulrich) Generalized regular variation of second order. (English summary) **97g:26001**
Ostrogorski, Tatjana Regular variation on homogeneous cones. (English summary) **97f:26002**
Shackell, John Extensions of asymptotic fields via meromorphic functions. (English summary) **97e:26001**
Stadtmüller, Ulrich *see* **de Haan, Laurens, 97g:26001**

Items with secondary classifications in 26A12

Marić, Vojislav (*with* Tomić, Miodrag) Slowly varying solutions of second order linear differential equations. (English summary) **97i:34076**
Tomić, Miodrag *see* **Marić, Vojislav, 97i:34076**

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Banaszewski, Krzysztof On $\mathscr{E}$-continuous functions. (English summary) **97e:26005**
Brandi, Primo (*with* Salvadori, Anna) A characterization of lower semicontinuity. **97m:26003**
Ciesielski, Krzysztof[2] (*with* Recław, Ireneusz) Cardinal invariants concerning extendable and peripherally continuous functions. (English summary) **97f:26003**
— (*with* Szyszkowski, Marcin) A symmetrically continuous function which is not countably continuous. (English summary) **97h:26002**
Das, Gokulananda *see* **Savaş, Ekrem, 97m:26004**
Grande, Zbigniew On some representations of a.e. continuous functions. (English summary) **97a:26002**
de Haan, Laurens von Mises-type conditions in second order regular variation. (English summary) **97b:26002**
Katafiasz, Aleksandra Properties of the class of improvable functions. (English summary) **97i:26002**
Král, Josef Note on functions satisfying the integral Hölder condition. (English summary) **97k:26001**
Kwiecińska, Grażyna (*with* Ślęzak, Włodzimierz) On the strong semi-continuity of functions. **97j:26002**
Lau, Ka-Sing (*with* Ma, Mang-Fai; Wang, Jianrong) On some sharp regularity estimations of L^2-scaling functions. (English summary) **97d:26001**
Ma, Mang-Fai *see* **Lau, Ka-Sing; et al., 97d:26001**
Maliszewski, Aleksander On the differences of Darboux upper semicontinuous functions. (English summary) **97d:26002**
— On the sums and the products of Darboux cliquish functions. **97h:26003**
— On theorems of Pu & Pu and Grande. (English summary) **97c:26006**
Natkaniec, Tomasz On $\mathscr{D}^{**}$-Darboux functions. **97j:26003**
— Extendability and almost continuity. (English summary) **97g:26002**
Recław, Ireneusz *see* **Ciesielski, Krzysztof[2], 97f:26003**
Rosen, Harvey Every real function is the sum of two extendable connectivity functions. (English summary) **97d:26003**
Salvadori, Anna *see* **Brandi, Primo, 97m:26003**
Savaş, Ekrem (*with* Das, Gokulananda) On the $\mathscr{A}$-continuity of real functions. (English and Turkish summaries) **97m:26004**
Shi, Hongjian Some typical properties of symmetrically continuous functions, symmetric functions and continuous functions. (English summary) **97c:26007**
Ślęzak, Włodzimierz *see* **Kwiecińska, Grażyna, 97j:26002**
Szyszkowski, Marcin *see* **Ciesielski, Krzysztof[2], 97h:26002**
Wang, Jianrong *see* **Lau, Ka-Sing; et al., 97d:26001**
Yan, Jia Hao An analytic construction of a continuous function whose level sets are complete sets. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26A15

Anastassiou, George A. Global smoothness preservation by singular integrals. (English summary) **97b:41013**
Bardaro, Carlo (*with* Musielak, Julian; Vinti, Gianluca) On the definition and properties of a general modulus of continuity in some functional spaces. (English summary) **97c:46034**
Chen, Nei Ping Some properties of the point-variation function. (Chinese. English and Chinese summaries) **97b:26008**
Doboš, Jozef The standard Cantor function is subadditive. **97a:26004**
Flak, Katarzyna (*with* Pawlak, Ryszard Jerzy; Świątek, Bożena) On some method for improving continuity, quasi-continuity and the Darboux property. (English summary) **97e:54012**
Gibson, Richard G. Concerning a characterization of continuity.
Grudziński, W. (*with* Koszela, B.; Świątkowski, Tadeusz; Wilczyński, Władysław) Classes of continuous real functions. II. (English summary) **97d:54024**
Koszela, B. *see* **Grudziński, W.; et al., 97d:54024**
Li, Yi Quan *see* **Zou, Kai**
Musielak, Julian *see* **Bardaro, Carlo; et al., 97c:46034**
Pawlak, Helena (*with* Pawlak, Ryszard Jerzy) On weakly Darboux functions and some problem connected with the Morrey monotonicity. (English summary) **97i:54025**
Pawlak, Ryszard Jerzy On c-homotopies. (English summary) **97f:54018**
— *see also* **Flak, Katarzyna; et al., 97e:54012** *and* **Pawlak, Helena, 97i:54025**
Qiu, Shu Xi Complex generalized weights and quasi-continuity. (English and Chinese summaries) **97h:31007**
Reardon, Patrick Ramsey, Lebesgue, and Marczewski sets and the Baire property. (English summary) **97j:28005**
Rosen, Harvey On characterizing extendable connectivity functions by associated sets. (English summary) **97m:54028**
Shelah, Saharon Possibly every real function is continuous on a non-meagre set. (English summary) **97c:03122**
Świątek, Bożena *see* **Flak, Katarzyna; et al., 97e:54012**
Świątkowski, Tadeusz *see* **Grudziński, W.; et al., 97d:54024**
Vinti, Gianluca *see* **Bardaro, Carlo; et al., 97c:46034**
Wilczyński, Władysław *see* **Grudziński, W.; et al., 97d:54024**
Wolnicka, Jadwiga Quasi-uniform convergence of sequences of 1-improvable discontinuous functions. (English summary) **97c:54020**
Zou, Kai (*with* Li, Yi Quan) Weakly subdifferentiable regularity of locally Lipschitz functions. (Chinese. English and Chinese summaries)

26A16 Lipschitz (Hölder) classes

Balcerzak, Marek (*with* Buczolich, Zoltán; Laczkovich, Miklós) Lipschitz differences and Lipschitz functions. **97k:26002**
Buczolich, Zoltán *see* **Balcerzak, Marek; et al., 97k:26002**
Ciesielski, Krzysztof[2] Uniformly antisymmetric functions and K_5. (English summary) **97c:26008**
Kosek, Wojciech On "Lipschitz" subspaces of the space of continuous functions. (English summary) **97c:26009**
Laczkovich, Miklós *see* **Balcerzak, Marek; et al., 97k:26002**
Steele, T. H. Towards a characterization of ω-limit sets for Lipschitz functions. (English summary) **97k:26003**

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Borwein, Jonathan M. (*with* Wang, Xianfu) Distinct differentiable functions may share the same Clarke subdifferential at all points. (English summary) **97e:49015**
Buckley, Stephen M. Space-filling curves and related functions. **97b:26004**
Chevalier, Lucien (*with* Rosay, Jean-Pierre) A characterization of lines among Lipschitz graphs. **97g:42014**
Ginsburg, A. I. *see* **Karapetyants, N. K., 97j:26005**
Jaffard, Stéphane (*with* Meyer, Yves) Wavelet methods for pointwise regularity and local oscillations of functions. (English summary) **97d:42005**
Karapetyants, N. K. (*with* Ginsburg, A. I.) Fractional integrals and singular integrals in the Hölder classes of variable order. (English summary) **97j:26005**
Král, Josef Note on functions satisfying the integral Hölder condition. (English summary) **97k:26001**
Meyer, Yves *see* **Jaffard, Stéphane, 97d:42005**
Rosay, Jean-Pierre *see* **Chevalier, Lucien, 97g:42014**
Tachev, Gancho T. A note on two moduli of smoothness. (English summary) **97d:41006**
Wang, Xianfu *see* **Borwein, Jonathan M., 97e:49015**

26A18 Iteration [see also 39B12, 47H10, 54H25, 58F08, 58F13]

Baba, Yoshikazu (*with* Kubo, Izumi; Takahashi, Yōichirō) Li-Yorke's scrambled sets have measure 0. **97b:26003**
Balibrea Gallego, Francisco (*with* La Paz, Claudio) Fixed points in ω-limits. (Spanish) **97h:26004**
Brown, Herbert I. (*with* Burgmeier, James W.; Dummit, David S.) Functions whose successive tangent lines enclose proportional areas. **97h:26005**
Bruckner, Andrew M. Stability in the family of ω-limit sets of continuous self maps of the interval. (*see* **97h:00015**)
Burgmeier, James W. *see* **Brown, Herbert I.; et al., 97h:26005**
Domsta, Joachim A limit formula for regular iteration groups. (English summary) **97m:26005**
Dummit, David S. *see* **Brown, Herbert I.; et al., 97h:26005**
Huang, Ying[3] A nonlinear operator related to scaling functions and wavelets. (English summary) **97i:26003**
Kim, Hong Oh (*with* Kim, Jun Kyo; Kim, Jong Wan) Asymptotic behavior of Lebesgue measures of Cantor sets arising in the dynamics of tangent family $T_\alpha(\theta) = \alpha \tan(\theta/2)$. **97d:26004**
Kim, Jong Wan *see* **Kim, Hong Oh; et al., 97d:26004**
Kim, Jun Kyo *see* **Kim, Hong Oh; et al., 97d:26004**
Kubo, Izumi *see* **Baba, Yoshikazu; et al., 97b:26003**
La Paz, Claudio *see* **Balibrea Gallego, Francisco, 97h:26004**
Takahashi, Yōichirō *see* **Baba, Yoshikazu; et al., 97b:26003**

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Balibrea Gallego, Francisco (*with* Smítal, J.) A characterization of the set $\Omega(f) \setminus \omega(f)$ for continuous maps of the interval with zero topological entropy. (English summary) **97g:58097**
Chamberland, Marc A continuous extension of the $3x + 1$ problem to the real line. (English summary) **97m:11028**
Collet, Pierre (*with* Galves, A.) Asymptotic distribution of entrance times for expanding maps of the interval. (English summary) **97b:58083**
Elaydi, Saber N. On a converse of Sharkovsky's theorem. **97g:58049**
Epstein, Adam (*with* Keen, Linda; Tresser, Charles) The set of maps $F_{a,b}: x \mapsto x + a + (b/2\pi)\sin(2\pi x)$ with any given rotation interval is contractible. (English summary) **97e:58129**
Galves, A. *see* **Collet, Pierre, 97b:58083**

Gillespie, A. (*with* Kannan, Rangachary) Iterative process for finding common fixed points of nonlinear mappings. **97b:47059**
Graczyk, Jacek (*with* Świątek, Grzegorz) Polynomial-like mappings induced by real polynomials. (English summary) **97b:58121**
Grove, E. A. (*with* Kocic, Vlajko L.; Ladas, G.; Levins, R.) Periodicity in a simple genotype selection model. (English summary) **97e:92005**
Jiménez López, Víctor Defining complete and observable chaos. (English summary) **97e:58153**
— (*with* Snoha, Ľubomír) All maps of type 2^∞ are boundary maps. (English summary) **97g:58134**
— (*with* Snoha, Ľubomír) There are no piecewise linear maps of type 2^∞. (English summary) **97h:58063**
Kannan, Rangachary *see* **Gillespie, A., 97b:47059**
Keen, Linda *see* **Epstein, Adam; et al., 97e:58129**
Kocic, Vlajko L. *see* **Grove, E. A.; et al., 97e:92005**
Ladas, G. *see* **Grove, E. A.; et al., 97e:92005**
Lau, Ka-Sing Self-similarity, L^p-spectrum and multifractal formalism. (English summary) **97h:28001**
Leśniak, Zbigniew On the system of the Abel equations on the plane. (English summary) **97b:39050**
Levins, R. *see* **Grove, E. A.; et al., 97e:92005**
McMullen, Curtis T. ★ Renormalization and 3-manifolds which fiber over the circle. **97f:57022**
Sivak, A. G. Each nowhere dense nonvoid closed set in $\mathbf{R}^n$ is a σ-limit set. (English summary) **97c:58093**
Smital, J. *see* **Balibrea Gallego, Francisco, 97g:58097**
Snoha, Ľubomír *see* **Jiménez López, Víctor, 97g:58134** *and* **97h:58063**
Steele, T. H. Towards a characterization of ω-limit sets for Lipschitz functions. (English summary) **97k:26003**
Świątek, Grzegorz *see* **Graczyk, Jacek, 97b:58121**
Tresser, Charles *see* **Epstein, Adam; et al., 97e:58129**
Yu, Hai Yan *see* **Zhang, Hong Zhi**
Zhang, Hong Zhi (*with* Yu, Hai Yan) Two theorems on iterative functions. (Chinese. English and Chinese summaries)

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Annals of Mathematics Studies *see* **McMullen, Curtis T., 97f:57022**

26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

Darji, Udayan B. (*with* Evans, Michael Jon; Humke, Paul D.) First return approachability. (English summary) **97g:26003**
Evans, Michael Jon *see* **Darji, Udayan B.; et al., 97g:26003**
Freiling, Chris (*with* Thomson, B. S.) Scattered sets and gauges. (English summary) **97i:26004**
— (*with* Thomson, B. S.) Scattered sets, chains and the Baire category theorem. (English summary) **97i:26005**
Humke, Paul D. *see* **Darji, Udayan B.; et al., 97g:26003**
Reclaw, Ireneusz Some remarks on the Baire order of functions continuous almost everywhere. (English summary) **97k:26004**
Thomson, B. S. *see* **Freiling, Chris, 97i:26004** *and* **97i:26005**
Zucco, Andreana Porosity and typical properties of continuous real functions. (Italian) **97d:26005**

Items with secondary classifications in 26A21

Balcerzak, Marek (*with* Wojdowski, Wojciech; Renfro, Dave L.) On unions of porous sets. (English summary) **97k:28001**
Brandi, Primo (*with* Salvadori, Anna) A characterization of lower semicontinuity. **97m:26003**
Bruckner, Andrew M. The problem of characterizing derivatives revisited. **97g:26004**
Evans, Michael Jon (*with* O'Malley, Richard J.) Fine tuning the recoverability of Baire one functions. (English summary) **97c:26002**
Farmaki, Vassiliki On Baire-1/4 functions. (English summary) **97c:46030**
Fejzić, Hajrudin (*with* Rinne, Dan) Peano path derivatives. (English summary) **97j:26004**
Freiling, Chris (*with* Vallin, Robert W.) Simultaneous recovery of Baire one functions. (English summary) **97h:26001**
Ki, Haseo On the set of all continuous functions with uniformly convergent Fourier series. (English summary) **97a:04001**
— On the Denjoy rank, the Kechris-Woodin rank and the Zalcwasser rank. (English summary) **97i:04001**
Kwiecińska, Grażyna (*with* Ślęzak, Włodzimierz) On the strong semi-continuity of functions. **97j:26002**
Maliszewski, Aleksander On products of a.e. continuous derivatives. (English summary) **97g:26005**
— On the sums and the products of Darboux cliquish functions. **97h:26003**
Mauldin, R. Daniel Analytic non-Borel sets modulo null sets. (English summary) **97c:28003**
Natkaniec, Tomasz On $\mathcal{D}^{**}$-Darboux functions. **97j:26003**
O'Malley, Richard J. *see* **Evans, Michael Jon, 97c:26002**
Pawlak, Helena (*with* Pawlak, Ryszard Jerzy) On weakly Darboux functions and some problem connected with the Morrey monotonicity. (English summary) **97i:54025**
Pawlak, Ryszard Jerzy *see* **Pawlak, Helena, 97i:54025**
Renfro, Dave L. *see* **Balcerzak, Marek; et al., 97k:28001**
Rinne, Dan *see* **Fejzić, Hajrudin, 97j:26004**
Salvadori, Anna *see* **Brandi, Primo, 97m:26003**
Ślęzak, Włodzimierz *see* **Kwiecińska, Grażyna, 97j:26002**
Vallin, Robert W. *see* **Freiling, Chris, 97h:26001**
Wojdowski, Wojciech *see* **Balcerzak, Marek; et al., 97k:28001**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Bruckner, Andrew M. The problem of characterizing derivatives revisited. **97g:26004**
Darst, Richard B. (*with* Taylor, Gerald D.) Differentiating powers of an old friend.
Elsken, T. (*with* Pearson, D. B.; Robinson, Paul Michael) Approximate monotonicity: theory and applications. (English summary) **97i:26006**
Fejzić, Hajrudin (*with* Rinne, Dan) Peano path derivatives. (English summary) **97j:26004**
Giannessi, Franco A common understanding or a common misunderstanding? **97a:26003**
Horbaczewska, Grażyna Remark on some theorem of Zajíček. (English and Polish summaries) **97f:26004**
Liu, Yu Qi A proof of Lagrange's theorem. (Chinese. English and Chinese summaries)
Maliszewski, Aleksander On products of a.e. continuous derivatives. (English summary) **97g:26005**
Mihu, Nicoleta (*with* Vuza, Dan Tudor) Constructing Pompeiu derivatives using convolution. (English and Romanian summaries) **97i:26007**
Mitra, Subhen *see* **Mukhopadhyay, S. N., 97f:26005**
Mukhopadhyay, S. N. (*with* Mitra, Subhen) An extension of a theorem of Marcinkiewicz and Zygmund on differentiability. (English summary) **97f:26005**
Olevskiĭ, A. M. (*with* Weil, C. E.) A continuous function not twice Peano differentiable on any perfect set. (English summary) **97c:26010**
Pearson, D. B. *see* **Elsken, T.; et al., 97i:26006**
Rinne, Dan *see* **Fejzić, Hajrudin, 97j:26004**
Robinson, Paul Michael *see* **Elsken, T.; et al., 97i:26006**
Taylor, Gerald D. *see* **Darst, Richard B.**
Vuza, Dan Tudor *see* **Mihu, Nicoleta, 97i:26007**
Weil, C. E. *see* **Olevskiĭ, A. M., 97c:26010**
Yang, Ke Ren On the Z^* integral. (English and Chinese summaries) **97m:26006**

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Acosta G., Ernesto Differentiability in topological groups. (English summary) **97f:22003**
Bates, S. M. (*with* Norton, Alec) On sets of critical values in the real line. **97h:58019**
Bongiorno, Benedetto (*with* Di Piazza, Luisa; Skvortsov, V. A.) The essential variation of a function and some convergence theorems. (Russian summary) **97a:26011**
Borwein, Jonathan M. (*with* Wang, Xianfu) Distinct differentiable functions may share the same Clarke subdifferential at all points. (English summary) **97e:49015**
Di Piazza, Luisa *see* **Bongiorno, Benedetto; et al., 97a:26011**
Dyuzhenkova, O. Yu. A remark on the modulus of smoothness of Z. Ditzian and V. Totik. (Russian. English and Ukrainian summaries) **97e:41011**
Ene, Vasile A note on an assumption of P. Y. Lee and T. S. Chew. (English summary) **97e:26004**
Freiling, Chris (*with* Thomson, B. S.) Scattered sets and gauges. (English summary) **97i:26004**
Lahiri, Indrajit Functions of Λ-bounded variation and Λ-derivates relative to a set. (English summary) **97j:26009**
(Mařík, Jan) *see* **Zajíček, Luděk, 97m:01089**
Mirică, Ştefan Monotonicity of real functions without regularity assumptions. (English summary) **97a:26012**
Nillsen, Rodney Differentiate and make waves. **97g:42004**
Norton, Alec *see* **Bates, S. M., 97h:58019**
Skvortsov, V. A. *see* **Bongiorno, Benedetto; et al., 97a:26011**
Thomson, B. S. *see* **Freiling, Chris, 97i:26004**
Wang, Xianfu *see* **Borwein, Jonathan M., 97e:49015**
Zajíček, Luděk On results of Jan Mařík in the theory of derivatives. (English summary) **97m:01089**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

Ivashev-Musatov, O. S. On continuous functions without derivatives. (Russian) **97d:26006**
Jaffard, Stéphane The spectrum of singularities of Riemann's function. (English summary) **97g:26006**
Prachar, Karl (*with* Sagan, Hans) On the differentiability of the coordinate functions of Pólya's space-filling curve. (English summary) **97h:26006**
Sagan, Hans Nowhere differentiability of Sierpiński's space-filling curve. (English summary) **97d:26007**
— Approximating polygons for the Sierpiński-Knopp curve. (English summary) **97e:26002**
— The coordinate functions of Sierpiński's space-filling curve are nowhere differentiable. (English summary) **97d:26008**
— *see also* **Prachar, Karl, 97h:26006**

Items with secondary classifications in 26A27

Baouche, Amar (*with* Dubuc, Serge) La minimisation de la fonction de Weierstrass. (English and French summaries) [Minimization of the Weierstrass function] **97b:90101**
Dubuc, Serge *see* **Baouche, Amar, 97b:90101**
Gangal, Anil D. *see* **Kolwankar, Kiran M., 97m:26007**
Kolwankar, Kiran M. (*with* Gangal, Anil D.) Fractional differentiability of nowhere differentiable functions and dimensions. (English summary) **97m:26007**
Montini, E. Closed evaluation of Riemann's nondifferentiable function. (English summary) **97e:11161**
Okada, Tatsuya (*with* Sekiguchi, Takeshi; Shiota, Yasunobu) A generalization of Hata-Yamaguti's results on the Takagi function. II. Multinomial case. (English summary) **97i:26008**
Sekiguchi, Takeshi *see* **Okada, Tatsuya; et al., 97i:26008**
Shi, Hongjian Some typical properties of symmetrically continuous functions, symmetric functions and continuous functions. (English summary) **97e:26007**
Shiota, Yasunobu *see* **Okada, Tatsuya; et al., 97i:26008**
Wang, Guo Zhong A proof of the Box dimension of the Weierstrass function. (Chinese. English and Chinese summaries)

26A30 Singular functions, Cantor functions, functions with other special properties

(Boyanov, Borislav D.) *see* **Obreshkov, Nikola**
Buckley, Stephen M. Space-filling curves and related functions. **97b:26004**
Doboš, Jozef The standard Cantor function is subadditive. **97a:26004**
Girgensohn, Roland Constructing singular functions via Farey fractions. (English summary) **97f:26006**
Lu, Shipan (*with* Zhang, Jing[2]) A construction for differentiable Cantor-like function. (English and Chinese summaries)
Obreshkov, Nikola On certain integral representations of real functions on the real semi-axis [Bülgar. Akad. Nauk. Izv. Mat. Inst. **1** (1954), no. 2, 3–33; MR **16**, 1018b].
Okada, Tatsuya (*with* Sekiguchi, Takeshi; Shiota, Yasunobu) A generalization of Hata-Yamaguti's results on the Takagi function. II. Multinomial case. (English summary) **97i:26008**
Qiang, Xiao Yi Some definitions of "periodic function". (Chinese. English and Chinese summaries)
Sekiguchi, Takeshi *see* **Okada, Tatsuya; et al., 97i:26008**
Shiota, Yasunobu *see* **Okada, Tatsuya; et al., 97i:26008**
Zhang, Jing[2] *see* **Lu, Shipan**

Items with secondary classifications in 26A30

Gashkov, S. B. On the complexity of approximate realization of some classical functions [translation of *Discrete analysis (Russian)*, 14–33, Izdat. Ross. Akad. Nauk Sibirsk. Otdel. Inst. Mat., Novosibirsk, 1994]. (English summary) **97b:68088**
Jaffard, Stéphane (*with* Meyer, Yves) Wavelet methods for pointwise regularity and local oscillations of functions. (English summary) **97d:42005**
Meyer, Yves *see* **Jaffard, Stéphane, 97d:42005**
Rybárik, Ján g-functions. (English summary) **97m:28004**
Strichartz, Robert S. (*with* Taylor, Arthur; Zhang, Tong[2]) Densities of self-similar measures on the line. (English summary) **97c:28014**
Taylor, Arthur *see* **Strichartz, Robert S.; et al., 97c:28014**
Zhang, Tong[2] *see* **Strichartz, Robert S.; et al., 97c:28014**

26A33 Fractional derivatives and integrals

Ali, Ismail (*with* Kalla, S. L.) Solution of some partial differential equations by fractional calculus. (English summary) **97b:26005**
Aular de Durán, Judith *see* **Nishimoto, K.; et al., 97a:26006**
Bolia, Mamta *see* **Raina, R. K., 97c:26012**
Campos, L. M. B. C. On an approach to complex analysis via differintegrations. (English summary) **97k:26005**
Ch'ên, Ming Po (*with* Srivastava, Hari M.) Fractional calculus operators and their applications involving power functions and summation of series. (English summary) **97i:26009**
Choi, Junesang A class of infinite series summable by means of fractional calculus. (English summary) **97k:26006**
El-Sayed, Ahmed M. A. Finite Weyl fractional calculus and abstract fractional differential equations. (English summary) **97a:26005**
Galué, Leda *see* **Nishimoto, K.; et al., 97a:26006**
Gangal, Anil D. *see* **Kolwankar, Kiran M., 97m:26007**
Ginsburg, A. I. *see* **Karapetyants, N. K., 97j:26005**
Glasser, M. L. *see* **Kowalenko, Victor, 97i:26010**
Grin'ko, A. P. Operators of generalized fractional integro-differentiation with Humbert's function in the kernel. (Russian) (*see* **97g:00017**)
Kalla, S. L. (*with* Luchko, Yu. F.; Yakubovich, S. B.) The new Leibniz rules and their integral analogues. (English summary) **97d:26009**
— *see also* **Ali, Ismail, 97b:26005**
Karapetyants, N. K. (*with* Ginsburg, A. I.) Fractional integrals and singular integrals in the Hölder classes of variable order. (English summary) **97j:26005**
Kashevskiĭ, V. V. Weak integration and differentiation operators. (Russian) (*see* **97g:00017**)
Kilbas, A. A. (*with* Saigo, Megumi) Fractional integrals and derivatives of functions of Mittag-Leffler type. (Russian. English and Russian summaries) **97f:26007**
— (*with* Saigo, Megumi) Solution of Abel integral equations of the second kind and of differential equations of fractional order. (Russian. English and Russian summaries) **97f:26008**
— Asymptotic properties of fractional integrals and their applications. (*see* **97g:00017**)
— (*with* Saigo, Megumi) Compositions of generalized fractional calculus operators with axisymmetric differential operator of potential theory on spaces $F_{p,\mu}$ and $F'_{p,\mu}$. (English summary) (*see* **97g:00017**)
Kolwankar, Kiran M. (*with* Gangal, Anil D.) Fractional differentiability of nowhere differentiable functions and dimensions. (English summary) **97m:26007**
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26A45 Functions of bounded variation, generalizations

Bongiorno, Benedetto (*with* Di Piazza, Luisa; Skvortsov, V. A.) The essential variation of a function and some convergence theorems. (Russian summary) **97a:26011**
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Lahiri, Indrajit Functions of Λ-bounded variation and Λ-derivates relative to a set. (English summary) **97j:26009**
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Liu, Xiao Hua (*with* Yan, Qingxu; Wang, Xiuhong) A relation theorem on $\mathscr{A}_\rho$-weighted function and VMO. (English and Chinese summaries) **97g:42016**
Moreau, Jean Jacques Jump functions of a real interval to a Banach space. (English and French summaries) **97g:26026**
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26A46 Absolutely continuous functions

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26A48 Monotonic functions, generalizations

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Mercer, A. McD. A short proof of Ky Fan's arithmetic-geometric inequality. **97m:26028**
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26Bxx Functions of several variables

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Weintraub, Steven H. ★ Differential forms. **97g:58002**

26B05 Continuity and differentiation questions

Alikulov, É. O. On connectedness of derivative sets. (English summary) **97j:26014**
Bantaş, Gh. (*with* Turinici, Mihai) Hyperbolic mean value theorems of differential form. **97f:26013**
Berezhnoĭ, E. I. Estimates for the uniform modulus of continuity of functions from symmetric spaces. (Russian. Russian summary) **97d:26015**
Bianchi, Gabriele (*with* Colesanti, Andrea; Pucci, Carlo) On the second differentiability of convex surfaces. (English summary) **97a:26014**
Colesanti, Andrea *see* **Bianchi, Gabriele; et al., 97a:26014**
Fejzić, Hajrudin (*with* Rinne, Dan) Continuity properties of Peano derivatives in several variables. (English summary) **97a:26015**
Gandini, Pier Mario An extension of a theorem of Banach. (English summary) **97f:26014**
Grande, Zbigniew On strong quasi-continuity of functions of two variables. (English summary) **97g:26011**
Malý, Jan The Darboux property for gradients. (English summary) **97m:26015**
Pawlak, Helena (*with* Pawlak, Ryszard Jerzy) On a D-extension of a homeomorphism. (English summary) **97a:26016**
Pawlak, Ryszard Jerzy *see* **Pawlak, Helena, 97a:26016**
Pucci, Carlo *see* **Bianchi, Gabriele; et al., 97a:26014**
Rinne, Dan *see* **Fejzić, Hajrudin, 97a:26015**
Tang, Yong The Clarke derivative and the Dini derivative. (Chinese. English and Chinese summaries) **97h:26011**
Turinici, Mihai *see* **Bantaş, Gh., 97f:26013**
Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Approximate core-a.e. topology. (English and Polish summaries) **97g:26012**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta, 97g:26012**

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Berezhnoĭ, E. I. Differential properties of bases, and the bordering problem for symmetric spaces. (Russian. Russian summary) **97c:46036**
Giannessi, Franco A common understanding or a common misunderstanding? **97a:26003**
Hoàng Xuân Phú (*with* Hoffmann, Armin) Essential supremum and supremum of summable functions. (English summary) **97b:49004**
Hoffmann, Armin *see* **Hoàng Xuân Phú, 97b:49004**
Lewis, A. S. Derivatives of spectral functions. (English summary) **97g:90141**
Mizuta, Yoshihiro *see* **Shimomura, Tetsu, 97d:31009**
Müller, Stefan (*with* Spector, Scott J.; Tang, Qi) Invertibility and a topological property of Sobolev maps. (English summary) **97e:46041**
Penot, Jean-Paul Sequential derivatives and composite optimization. (English summary) **97g:49022**
Piotrowski, Zbigniew On the theorems of Y. Mibu and G. Debs on separate continuity. (English summary) **97d:54025**
Poliquin, R. A. (*with* Rockafellar, R. Tyrrell) Generalized Hessian properties of regularized nonsmooth functions. (English summary) **97j:49025**
Riestra, J.-A. ★ A generalized Taylor's formula for functions of several variables and certain of its applications. (English summary) **97c:58016**
Rockafellar, R. Tyrrell *see* **Poliquin, R. A., 97j:49025**
Shimomura, Tetsu (*with* Mizuta, Yoshihiro) Taylor expansion of Riesz potentials. (English summary) **97d:31009**
Spector, Scott J. *see* **Müller, Stefan; et al., 97e:46041**
Stokolos, A. M. On differentiation of integrals with respect to bases of convex sets. (English summary) **97f:28008**
Tang, Qi *see* **Müller, Stefan; et al., 97e:46041**

26B10 Implicit function theorems, Jacobians, transformations with several variables

Campbell, L. A. Partial properness and real planar maps. (English summary) **97e:26008**
Muñoz Masqué, Jaime (*with* Rodríguez Sánchez, Gerardo) An iterated method of computing the inverse mapping. (English summary) (*see* **97m:65010**)
Rodríguez Sánchez, Gerardo *see* **Muñoz Masqué, Jaime, (97m:65010)**
Soriano Arbizu, J. M. On the existence of zero points. (English summary) **97f:26015**

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Appell, Jürgen (*with* Vignoli, Alfonso; Zabreĭko, Petr Petrovich) Implicit function theorems and nonlinear integral equations. (English summary) **97m:47087**
Dell'Achchio, F. A counterexample to a conjecture associated with the Jacobian problem. (Russian) **97b:58017**
Đinh Thế Lục Taylor's formula for $C^{k,1}$ functions. (English summary) **97a:49011**
Dontchev, Asen L. (*with* Hager, William W.) Implicit functions defined by generalized equations. (English summary) (*see* **97a:00029**)
van den Essen, Arno (*with* Hubbers, Engelbert) Polynomial maps with strongly nilpotent Jacobian matrix and the Jacobian conjecture. (English summary) **97f:15061**
Garbely, Myriam *see* **Gilli, Manfred, 97j:90025**
Gilli, Manfred (*with* Garbely, Myriam) Matchings, covers, and Jacobian matrices. (English summary) **97j:90025**

Hager, William W. *see* **Dontchev, Asen L., (97a:00029)**
Hubbers, Engelbert *see* **van den Essen, Arno, 97f:15061**
Koike, Minoru Inverse mapping theorem in the ultradifferentiable class. **97k:58022**
Mocanu, Petru T. A sufficient condition for injectivity in the complex plane. (English summary) **97m:30013**
Scholtes, Stefan Homeomorphism conditions for coherently oriented piecewise affine mappings. (English summary) **97k:90087**
Totik, Vilmos Markoff constants for Cantor sets. (English summary) **97h:41028**
Vignoli, Alfonso *see* **Appell, Jürgen; et al., 97m:47087**
Zabreĭko, Petr Petrovich *see* **Appell, Jürgen; et al., 97m:47087**

26B12 Calculus of vector functions

Malešević, Branko J. A note on higher-order differential operations. (English summary) **97g:26013**

26B15 Integration: length, area, volume [see also 28A75, 51M25]

Baker, John A. Integration over spheres and the divergence theorem for balls. **97m:26016**
Faure, Claude-Alain (*with* Mawhin, Jean L.) Integration over unbounded multidimensional intervals. (English summary) **97m:26017**
Jarník, Jiří *see* **Kurzweil, Jaroslav, 97a:26017**
Khovanskiĭ, A. G. (*with* Yakovenko, S. Yu.) Generalized Rolle theorem in $\mathbf{R}^n$ and $\mathbf{C}$. (English summary) **97f:26016**
Kufarev, B. P. On the length and area principle for planar mappings with bounded distortion. (Russian) **97f:26017**
Kurzweil, Jaroslav (*with* Jarník, Jiří) Perron type integration on n-dimensional intervals as an extension of integration of stepfunctions by strong equiconvergence. **97a:26017**
Li, Xing Min (*with* Liu, Yi Ming) Sign determination for the second type of curved surface integrals. (Chinese. English and Chinese summaries)
Liu, Yi Ming *see* **Li, Xing Min**
Mawhin, Jean L. *see* **Faure, Claude-Alain, 97m:26017**
Nakanishi, Shizu Multidimensional non-absolutely convergent integrals by the method of successive approximation. I. (English summary) **97a:26018**
— Multidimensional non-absolutely convergent integrals by the method of successive approximation. II. In connection with Riemann type integrals. (English summary) **97m:26018**
Nonnenmacher, Dirk Jens F. A constructive definition of the n-dimensional $v(S)$-integral in terms of Riemann sums. (English summary) **97g:26014**
Rzepecka, Genowefa *see* **Wilczyński, Władysław, 97e:26009**
Wilczyński, Władysław (*with* Rzepecka, Genowefa) Two remarks about surfaces. (English and Polish summaries) **97e:26009**
Yakovenko, S. Yu. *see* **Khovanskiĭ, A. G., 97f:26016**

Items with secondary classifications in 26B15

Hu, Jicheng Boundary behaviour of Cauchy singular integrals. (English and Chinese summaries) **97d:30051**
Jiang, Hui Kun Integrals of the second type over fractal curves and surfaces. (Chinese. English and Chinese summaries)
Lin, Ying-Jian On the generalized convergence theorems for Thomson's $\mathscr{L}$-integral on $\mathbf{R}^m$. **97b:26006**

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

Items with secondary classifications in 26B20

Baker, John A. Integration over spheres and the divergence theorem for balls. **97m:26016**
Král, Josef The divergence theorem. (English summary) **97i:28002**
Nonnenmacher, Dirk Jens F. A constructive definition of the n-dimensional $v(S)$-integral in terms of Riemann sums. (English summary) **97g:26014**

26B25 Convexity, generalizations

Alberti, Giovanni On the structure of singular sets of convex functions. (English summary) **97e:26010**
Bianchi, Monica Generalized quasimonotonicity and strong pseudomonotonicity of bifunctions. (English summary) **97m:26019**
Cambini, R. Some new classes of generalized concave vector-valued functions. (English summary) **97m:26020**
Cardinali, Tiziana Some characterizations of functions generating K-Schur concave sums and of K-concave set-valued functions. (English summary) **97b:26009**
Eliezer, C. J. (*with* Mond, B.; Pečarić, Josip E.) Artin's theorem and related results. **97a:26019**
Kuz'minykh, A. V. On mappings that "shatter" convexity. (Russian. Russian summary) **97a:26020**
Mond, B. *see* **Eliezer, C. J.; et al., 97a:26019**
Pečarić, Josip E. *see* **Eliezer, C. J.; et al., 97a:26019**

Items with secondary classifications in 26B25

Benoist, J. (*with* Hiriart-Urruty, J.-B.) What is the subdifferential of the closed convex hull of a function? (English summary) **97k:49026**
Bianchi, Gabriele (*with* Colesanti, Andrea; Pucci, Carlo) On the second differentiability of convex surfaces. (English summary) **97a:26014**
Colesanti, Andrea *see* **Bianchi, Gabriele; et al., 97a:26014**
Craven, Bruce Desmond (*with* Gershkovich, V. Ya.; Ralph, Daniel) Morse theory and invariant concepts of convexity. (English summary) **97a:58029**
Crouzeix, Jean-Pierre (*with* Schaible, Siegfried) Generalized monotone affine maps. (English summary) **97f:90067**
Gershkovich, V. Ya. *see* **Craven, Bruce Desmond; et al., 97a:58029**
Gusić, Ivica *see* **Pečarić, Josip E., 97k:26019**
Hiriart-Urruty, J.-B. *see* **Benoist, J., 97k:49026**
Katscher, Carsten (*with* Novak, Erich; Petras, Knut) Quadrature formulas for multivariate convex functions. (English summary) **97k:65062**
Kojima, Masakazu *see* **Phan Thiên Thạch, 97a:90052**
Molho, Elena (*with* Schaible, Siegfried) Invexity of quadratic functions and restricted/local invexity. (English summary) **97d:90073**
Novak, Erich *see* **Katscher, Carsten; et al., 97k:65062**
Parry, G. P. On the planar rank-one convexity condition. (English summary) **97e:49001**
Pečarić, Josip E. (*with* Gusić, Ivica) On some inequalities of Maligranda and Orlicz. (English summary) **97k:26019**
Petras, Knut *see* **Katscher, Carsten; et al., 97k:65062**
Phạm Hữu Sách Sufficient conditions for generalized convex set-valued maps. (English summary) **97e:49017**
Phan Thiên Thạch (*with* Kojima, Masakazu) A generalized convexity and variational inequality for quasi-convex minimization. (English summary) **97a:90052**
Pini, Rita (*with* Singh, Chanchal) Sectionally convexible functions. (English summary) **97h:90053**
Polovinkin, E. S. Strongly convex analysis. (Russian. Russian summary) **97k:52004**
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Schaible, Siegfried *see* **Molho, Elena, 97d:90073** *and* **Crouzeix, Jean-Pierre, 97f:90067**
Senn, W. M. Differentiability properties of the minimal average action. (English summary) **97e:58034**
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Srivastava, Manjari K. Vector valued Lagrangian and invexity type multiobjective programming problems. (English summary) **97e:90078**
Yang, Xiao Qi Generalised Hessian, max function and weak convexity. (English summary) **97a:49024**

26B30 Absolutely continuous functions, functions of bounded variation

Bongiorno, Benedetto (*with* Di Piazza, Luisa; Pfeffer, Washek F.) A full descriptive definition of the BV-integral. (English summary) **97f:26018**
Choksi, Rustum (*with* Fonseca, Irene) A change of variables formula for mappings in BV. (English summary) **97i:26014**
Di Piazza, Luisa *see* **Bongiorno, Benedetto; et al., 97f:26018**
Fonseca, Irene *see* **Choksi, Rustum, 97i:26014**
Pfeffer, Washek F. The generalized Riemann-Stieltjes integral. (English summary) **97f:26019**
— *see also* **Bongiorno, Benedetto; et al., 97f:26018**

Items with secondary classifications in 26B30

De Pauw, Thierry Topologies for the space of BV-integrable functions in $\mathbf{R}^N$. (English summary) **97m:46030**
Hajłasz, Piotr On approximate differentiability of functions with bounded deformation. (English summary) **97f:46049**
Leonov, A. S. Functions in several variables of bounded variation in ill-posed problems. (Russian. Russian summary) **97k:46083**

26B35 Special properties of functions of several variables, Hölder conditions, etc.

Egorov, A. A. On the stability of classes of affine mappings. (Russian. Russian summary) **97c:26016**
Meyer, Yves Chirps n-dimensionnels et analyse 2-microlocale. [n-dimensional chirps and 2-microlocal analysis] **97b:26010**
Ponomarev, S. P. The N^{-1}-property of mappings, and Luzin's (N) condition. (Russian. Russian summary) **97e:26017**

Items with secondary classifications in 26B35

Chuaqui, M. (*with* Osgood, B.; Stowe, D.) Functions with prescribed quasisymmetry quotients. **97j:26012**
Comte, Georges Sur les hypothèses du théorème de Sard pour le lieu critique de rang zéro. (English and French summaries) [On the smoothness hypotheses in Sard's theorem about the rank-zero critical locus] **97h:58018**
Garello, G. Inhomogeneous paramultiplication and microlocal singularities for semilinear equations. (Italian summary) **97k:35007**
Jaffard, Stéphane (*with* Meyer, Yves) Wavelet methods for pointwise regularity and local oscillations of functions. (English summary) **97d:42005**
Kudryavtsev, L. D. On traces of series of means of second differences. (Russian) **97b:46044**
Love, E. Russell (*with* Vũ Kim Tuấn) L^p-continuity of Riesz potentials. (English summary) **97e:31006**
MacManus, Paul The complement of a quasi-Möbius sphere is uniform. (English summary) **97h:30036**
Meyer, Yves *see* **Jaffard, Stéphane, 97d:42005**
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26B40 Representation and superposition of functions

Talalyan, F. A. A multidimensional analogue of a theorem of F. Riesz. (Russian. Russian summary) **97c:26018**
Upadhyaya, B. S. Symmetry classes of functions of four variables. **97j:26015**

Items with secondary classifications in 26B40

Garkavi, A. L. (*with* Medvedev, V. A.; Khavinson, S. Ya.) On the existence of a best uniform approximation of a function of several variables by the sum of functions of fewer variables. (Russian. Russian summary) **97h:41052**
Khavinson, S. Ya. *see* **Garkavi, A. L.; et al., 97h:41052**
Medvedev, V. A. *see* **Garkavi, A. L.; et al., 97h:41052**

26B99 None of the above, but in this section

Arkhipov, G. I. (*with* Sadovnichiĭ, V. A.[1]; Chubarikov, V. N.) On double and repeated base limits. (Russian. Russian summary) **97e:26011**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 97e:26011**
Sadovnichiĭ, V. A.[1] *see* **Arkhipov, G. I.; et al., 97e:26011**

Items with secondary classifications in 26B99

Isaacs, Rafael (*with* Sabogal, Sonia) Folds and glueings of the line and the plane. (Spanish) **97b:54016**
Sabogal, Sonia *see* **Isaacs, Rafael, 97b:54016**

26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

Burkov, V. N. (*with* Dzyubko, S. I.) Invariant sets for polynomials. (Russian. Russian summary) **97a:26021**
Dzyubko, S. I. *see* **Burkov, V. N., 97a:26021**
Gould, Henry W. A set of polynomials associated with the higher derivatives of $y = x^x$. (English summary) **97e:26012**
Shukla, Rama On maxima-minima. (English summary) **97b:26011**

Items with secondary classifications in 26C05

Lazov, Petar R. A criterion for polynomial decomposition. (English and Macedonian summaries) **97f:12002**

26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

Barabanov, A. T. Analysis of the distribution of roots of a polynomial using a generalized Routh scheme. (English summary) **97k:26011**
Oaxaca-Adams, Guillermo (*with* Verde-Star, Luis) An extremal problem concerning the derivatives of a polynomial at its roots. (English summary) **97i:26015**
Rakhmanov, E. A. Uniform measure and distribution of zeros of extremal polynomials of a discrete variable. (Russian. Russian summary) **97g:26015**
Verde-Star, Luis *see* **Oaxaca-Adams, Guillermo, 97i:26015**

Items with secondary classifications in 26C10

Dedieu, J. P. (*with* Gourdon, Xavier; Yakoubsohn, J. C.) Computing the distance from a point to an algebraic hypersurface. (English summary) **97m:65097**
Garloff, Jürgen (*with* Wagner, David G.) Preservation of total nonnegativity under the Hadamard product and related topics. (English summary) **97h:12002**
Gourdon, Xavier *see* **Dedieu, J. P.; et al., 97m:65097**
Horwitz, Alan L. On the ratio vectors of polynomials. **97j:12001**
Ibragimov, I. A. (*with* Zeitouni, Ofer) On roots of random polynomials. (English summary) **97h:60050**
Storozhenko, È. A. On a problem of Mahler on the zeros of a polynomial and its derivative. (Russian. Russian summary) **97h:30002**
Wagner, David G. Multipartition series. (English summary) **97f:05010**
— *see also* **Garloff, Jürgen, 97h:12002**
Yakoubsohn, J. C. *see* **Dedieu, J. P.; et al., 97m:65097**
Zeitouni, Ofer *see* **Ibragimov, I. A., 97h:60050**

26C15 Rational functions [see also 14Pxx]

Items with secondary classifications in 26C15

Nestoridis, Vassili Universal Taylor series. (English and French summaries) **97k:30001**

26C99 None of the above, but in this section

Draux, André Formal orthogonal polynomials revisited. Applications. (English summary) **97b:26012**
Ferrera Cuesta, Juan (*with* de la Puente, M. J.) The asymptotic values of a polynomial function on the real plane. (English summary) **97b:26013**
de la Puente, M. J. *see* **Ferrera Cuesta, Juan, 97b:26013**

Items with secondary classifications in 26C99

Brown, Herbert I. (*with* Burgmeier, James W.; Dummit, David S.) Functions whose successive tangent lines enclose proportional areas. **97h:26005**
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Dummit, David S. *see* **Brown, Herbert I.; et al., 97h:26005**
Farahmand, K. Sharp crossings of a non-stationary stochastic process and its application to random polynomials. (English summary) **97d:60071**
Fryant, Allan Multinomial expansions and the Pythagorean theorem. (English summary) **97f:33027**
Shi, Ying Guang On a problem of P. Erdős concerning polynomials and interpolation. **97k:41005**

26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15.}

Items with secondary classifications in 26Dxx

Sun, Jim Qile The modular inequalities for a class of convolution operators on monotone functions. (English summary) **97j:26016**

26D05 Inequalities for trigonometric functions and polynomials

Đorđević, R. Ž. *see* **Milovanović, I. Ž.; et al., 97e:26019**
Milovanović, I. Ž. (*with* Rančić, L. Z.; Đorđević, R. Ž.) Inequalities for coefficients of algebraic polynomials. (English summary) **97e:26019**
Rančić, L. Z. *see* **Milovanović, I. Ž.; et al., 97e:26019**
Stolarsky, Kenneth B. Hölder means, Lehmer means, and $x^{-1}\log\cosh x$. (English summary) **97i:26016**

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Białas-Cież, Leokadia (*with* Goetgheluck, Pierre) Constants in Markov's inequality on convex sets. (English summary) **97e:41005**
Boyanov, Borislav D. An inequality of Duffin and Schaeffer type. (English summary) **97g:41016**
Felten, Michael *see* **Kilgore, Theodore, 97e:41027**
Giordano, Carla (*with* Laforgia, Andrea; Pečarić, Josip E.) Supplements to known inequalities for some special functions. (English summary) **97b:33004**
Goetgheluck, Pierre *see* **Białas-Cież, Leokadia, 97e:41005**
Goncharov, A. P. A compact set without Markov's property but with an extension operator for C^∞-functions. (English summary) **97h:46032**
Harris, Lawrence A. Bernstein's polynomial inequalities and functional analysis. **97h:46070**
Kilgore, Theodore (*with* Felten, Michael) Some inequalities for derivatives of trigonometric and algebraic polynomials. (English summary) **97e:41027**
Laforgia, Andrea *see* **Giordano, Carla; et al., 97b:33004**
Pečarić, Josip E. *see* **Giordano, Carla; et al., 97b:33004**

26D07 Inequalities involving other types of functions

Items with secondary classifications in 26D07

Alzer, Horst On some inequalities for the gamma and psi functions. (English summary) **97e:33004**
— On some inequalities for the incomplete gamma function. (English summary) **97h:33004**
Figiel, T. (*with* Hitczenko, Paweł; Johnson, W. B.; Schechtman, Gideon; Zinn, J.) Extremal properties of Rademacher functions with applications to the Khintchine and Rosenthal inequalities. (English summary) **97j:60035**
Förg-Rob, Wolfgang (*with* Nikodem, Kazimierz; Páles, Zsolt) Separation by monotonic functions. (English summary) **97k:39026**
Hitczenko, Paweł *see* **Figiel, T.; et al., 97j:60035**
Johnson, W. B. *see* **Figiel, T.; et al., 97j:60035**
Nikodem, Kazimierz *see* **Förg-Rob, Wolfgang; et al., 97k:39026**
Páles, Zsolt *see* **Förg-Rob, Wolfgang; et al., 97k:39026**
Schechtman, Gideon *see* **Figiel, T.; et al., 97j:60035**
Zinn, J. *see* **Figiel, T.; et al., 97j:60035**

26D10 Inequalities involving derivatives and differential and integral operators

Agarwal, Ravi Prakash (*with* Pang, Peter Y. H.) Sharp Opial-type inequalities in two variables. (English summary) **97b:26014**
— (*with* Dragomir, Sever Silvestru) An application of Hayashi's inequality for differentiable functions. (English summary) **97e:26013**
Alzer, Horst Note on an integral inequality for concave functions. (English summary) **97e:26014**
Brown, Richard C. (*with* Hinton, Don B.; Kufner, Alois) Sufficient conditions for three weight sum inequalities in Lebesgue spaces. (English summary) **97m:26021**
Burchard, Almut Cases of equality in the Riesz rearrangement inequality. **97g:26016**
Cianchi, Andrea (*with* Edmunds, David E.; Gurka, Petr) On weighted Poincaré inequalities. (English summary) **97e:26015**
— On the L^q norm of functions having equidistributed gradients. **97a:26022**
Cortesani, Guido On the stability of Hardy's inequalities. (English and Italian summaries) **97c:26020**
Dragomir, Sever Silvestru *see* **Agarwal, Ravi Prakash, 97e:26013**
Edmunds, David E. (*with* Il'in, A. A.) Asymptotically sharp multiplicative inequalities. **97b:26015**
— *see also* **Cianchi, Andrea; et al., 97e:26015**
Emura, Salah A. A. Weighted estimates involving a function and its derivatives. **97g:26017**
Franchi, Bruno (*with* Lu, Guozhen; Wheeden, Richard L.) A relationship between Poincaré-type inequalities and representation formulas in spaces of homogeneous type. **97k:26012**
Güngör, F. (*with* Gunson, J.) A note on the proof of Adams and Clarke of Gross's logarithmic Sobolev inequality. (English summary) **97b:26016**
Gunson, J. *see* **Güngör, F., 97b:26016**
Gurka, Petr *see* **Cianchi, Andrea; et al., 97e:26015**
Hącia, Lechosław On some integral inequalities and their applications. (English summary) **97i:26019**
Ha Huy Bang Asymptotic behaviour of the sequence of norms of derivatives. (English summary) **97i:26017**
— A remark on the Kolmogorov-Stein inequality. (English summary) **97i:26018**

He, Xinggang The generalization of Opial and Hua's inequality. (English and Chinese summaries)
Hinton, Don B. *see* **Brown, Richard C.; et al., 97m:26021**
Horváth, László Gronwall-Bellman type integral inequalities in measure spaces. **97g:26018**
Hurri-Syrjänen, Ritva A generalization of an inequality of Bhattacharya and Leonetti. (English summary) **97m:26022**
Il'in, A. A. *see* **Edmunds, David E., 97b:26015**
Komornik, Vilmos Differential and integral inequalities. **97c:26021**
Kuang, Ji Chang A note on the reverse Hölder inequality of A_p weights. (English and Chinese summaries) **97f:26020**
Kufner, Alois (*with* Persson, Lars-Erik) A note on fractional order Hardy inequalities. (English summary) (*see* **97g:00017**)
— *see also* **Brown, Richard C.; et al., 97m:26021**
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26D99 None of the above, but in this section

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26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions [see also 32B05, 32C05]

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26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

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Rodríguez Marín, Luis *see* **Novo Sanjurjo, Vicente, 97a:49023**
Sakbaev, V. Zh. (*with* Zhidkov, P. E.) Schrödinger operators in spaces of multifunctions defined in multiply-connected domains. (English summary) **97a:58184**
Schmets, Jean (*with* Valdivia, Manuel) Domains of existence of **R**-analytic functions in real normed spaces. (English summary) **97g:46061**
Valdivia, Manuel *see* **Schmets, Jean, 97g:46061**
Zeidan, V. M. *see* **Páles, Zsolt, 97d:49019**
Zhidkov, P. E. *see* **Sakbaev, V. Zh., 97a:58184**

26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

Moreau, Jean Jacques Jump functions of a real interval to a Banach space. (English and French summaries) **97g:26026**

26E25 Set-valued functions [see also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx.}

Wąsowicz, Szymon On affine selections of set-valued functions. (English summary) **97e:26025**

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Cardinali, Tiziana Some characterizations of functions generating K-Schur concave sums and of K-concave set-valued functions. (English summary) **97b:26009**
Guo, Cai Mei *see* **Wu, Cong Xin; et al.**
Kasperski, Andrzej Compactness and compact operators on Musielak-Orlicz spaces of multifunctions. (English summary) **97m:46043**
Levy, A. B. (*with* Rockafellar, R. Tyrrell) Variational conditions and the proto-differentiation of partial subgradient mappings. **97h:49026**
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Smajdor, Andrzej Additive selections of a composition of additive set-valued functions. (English summary) (*see* **97k:58002**)
Szczawińska, Joanna Polynomial set-valued functions. (English summary) **97g:54036**
Wu, Cong Xin (*with* Guo, Cai Mei; Zhang, De Li) Seminorm fuzzy integrals of set-valued functions. (Chinese. Chinese summary)
Zhang, De Li *see* **Wu, Cong Xin; et al.**

26E30 Non-Archimedean analysis [see also 12J25]

Items with secondary classifications in 26E30

Kim, Han-Soo (*with* Kim, Taekyun) On p-adic differentiable and bounded functions. (English summary) **97d:11181**
Kim, Taekyun *see* **Kim, Han-Soo, 97d:11181**
Nakata, Mie The characterization of the rth power of balls in p-adic field. (English summary) **97i:11113**

26E35 Nonstandard analysis [see also 03H05, 28E05, 54J05]

Bauer, Madeleine Fonctions ε-régulières. [ε-regular functions] **97k:26023**
Hannachi, Messaoud Invariants métriques associés à un point d'une courbe réelle dans $\mathbf{R}^n$. (English, French and Arabic summaries) [Metric invariants associated with a point of a real curve in $\mathbf{R}^n$] **97j:26019**

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Callot, Jean-Louis Trois leçons d'analyse infinitésimale. [Three lessons in infinitesimal analysis] **97j:03121**
— Sur la piste des canards imaginaires. [On the trail of imaginary canards] **97d:34064**
Delcroix, Antoine Fonctions généralisées et analyse non standard. (English summary) [Generalized functions and nonstandard analysis] **97j:46037**
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Feng, Han Qiao *see* **Zhang, Fu Tai, 97j:03127**
Li, Yaqing A property of products of new generalized functions. (English summary) **97h:46061**
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26E40 Constructive real analysis [see also 03F60, 03F65]

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Rvachev, V. L. (*with* Shevchenko, A. N.; Shefko, T. I.) Calculi with a large number. (Russian. English and Ukrainian summaries) **97b:03078**
Sheiko, T. I. *see* **Rvachev, V. L.; et al., 97b:03078**
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26E50 Fuzzy real analysis [see also 04A72, 28E10]

Liu, Pu Yin Differentials of fuzzy-valued functions and their applications to fuzzy neural networks. (Chinese. English and Chinese summaries)

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Pham, T. D. (*with* Yan, H.) A kriging fuzzy integral. (English summary) **97j:68124**
Wu, Cong *see* **Wu, Cong Xin, 97m:04007**
Wu, Cong Xin (*with* Wu, Cong) The supremum and infimum of the [a] set of fuzzy numbers and its [their] application. (English summary) **97m:04007**
Yan, H. *see* **Pham, T. D., 97j:68124**

28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

28–01 Instructional exposition (textbooks, tutorial papers, etc.)

Adams, Malcolm (*with* Guillemin, Victor) ★ Measure theory and probability. (English summary) **97a:28001**
(Airault, Hélène) *see* **Malliavin, Paul, 97f:28001a**
Fejzić, Hajrudin On thin sets of circles.
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Hutchinson, John E. Measure theory. (*see* **97a:00039**)
(Kay, Leslie) *see* **Malliavin, Paul, 97f:28001a** *and* **Letac, Gérard, 97f:28001b**
Leinert, Michael ★ Integration und Maß. (German. German summary) [Integration and measure] **97j:28001**
Letac, Gérard ★ Exercises and solutions manual for *Integration and probability* [Springer, New York, 1995] by Paul Malliavin. **97f:28001b**
— *see also* **Malliavin, Paul, 97f:28001a**
Malliavin, Paul ★ Integration and probability. **97f:28001a**
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(Pinsky, Mark A.) *see* **Malliavin, Paul, 97f:28001a**

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Berezanskiĭ, Yu. M. (*with* Sheftel′, Z. G.; Us, G. F.) ★ Functional analysis. Vol. I. **97i:46001a**
— (*with* Sheftel′, Z. G.; Us, G. F.) ★ Functional analysis. Vol. II. **97i:46001b**
Browder, Andrew ★ Mathematical analysis. (English summary) **97g:00001**
Cartier, Pierre (*with* Feneyrol-Perrin, Yvette) Integration over finite sets. (*see* **97g:03065**)
Feneyrol-Perrin, Yvette *see* **Cartier, Pierre, (97g:03065)**
Howes, Norman R. ★ Modern analysis and topology. (English summary) **97i:54002**
Kannan, Rangachary (*with* Krueger, Carole King) ★ Advanced analysis on the real line. (English summary) **97m:26001**
Krueger, Carole King *see* **Kannan, Rangachary, 97m:26001**
de La Vallée Poussin, Charles-Jean ★ Intégrales de Lebesgue. (French) [Lebesgue integrals] **97c:01050**
(Malyshev, P. V.) *see* **Berezanskiĭ, Yu. M.; et al., 97i:46001a** *and* **97i:46001b**
Mawhin, Jean L. ★ Analyse. (French. French summary) [Analysis] **97k:00001**
Sheftel′, Z. G. *see* **Berezanskiĭ, Yu. M.; et al., 97i:46001a** *and* **97i:46001b**
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28–03 Historical (must also be assigned at least one classification number from Section 01)

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Bandt, Christoph (*with* Haase, Hermann) Die Wirkungen von Hausdorffs Arbeit über Dimension und äußeres Maß. [The influence of Hausdorff's paper "Dimension and outer measure"] (*see* **97m:01096**)
Bothe, Hans Günter (*with* Schmeling, Jörg) Die Hausdorff-Dimension in der Dynamik. [Hausdorff dimension in dynamics] (*see* **97m:01096**)
(Cassinet, Jean) *see* **Stieltjes, Thomas Jan, 97i:01054a**
Haase, Hermann *see* **Bandt, Christoph, (97m:01096)**
(Hausdorff, Felix) *see* **Schreiber, Peter, (97m:01096)**; **Bandt, Christoph, (97m:01096)**; **Steffen, Klaus, (97m:01096)** *and* **Bothe, Hans Günter, (97m:01096)**
Král, Josef The divergence theorem. (English summary) **97i:28002**
Lebesgue, Henri *see* **Luzin, N. N., 97m:01101b**
Luzin, N. N. (*with* Lebesgue, Henri) ★ Leçons sur les ensembles analytiques et leurs applications [Lusin]. Sur les fonctions représentables analytiquement [Lebesgue]. (French) [Lessons on analytic sets and their applications [Luzin]. On analytically representable functions [Lebesgue]] **97m:01101b**
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Schreiber, Peter Felix Hausdorffs paradoxe Kugelzerlegung im Kontext der Entwicklung von Mengenlehre, Maßtheorie und Grundlagen der Mathematik. [Felix Hausdorff's paradox decomposition of a ball, in the context of the development of set theory, measure theory and the foundations of mathematics] (*see* **97m:01096**)
(Sierpinski, W.) *see* **Luzin, N. N., 97m:01101b**
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28–06 Proceedings, conferences, collections, etc.

(Pollicott, Mark) *see* **Ergodic theory of Z^d actions, 97d:28001**
(Schmidt, Klaus) *see* **Ergodic theory of Z^d actions, 97d:28001**

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Symposium:
Ergodic Theory of Z^d Actions ★ Ergodic theory of Z^d actions. **97d:28001**
Warwick ★ Ergodic theory of Z^d actions. **97d:28001**

Items with secondary classifications in 28–06

(Bergelson, Vitaly) *see* **Convergence in ergodic theory and probability, 97d:00018**
(Cutland, Nigel J.) *see* **Developments in nonstandard mathematics, 97a:00043**
(March, Peter) *see* **Convergence in ergodic theory and probability, 97d:00018**
(Neves, Vítor) *see* **Developments in nonstandard mathematics, 97a:00043**
(Oliveira, Franco) *see* **Developments in nonstandard mathematics, 97a:00043**
(Robinson, Abraham) *see* **Developments in nonstandard mathematics, 97a:00043**
(Rosenblatt, Joseph Max) *see* **Convergence in ergodic theory and probability, 97d:00018**
(Sousa-Pinto, José) *see* **Developments in nonstandard mathematics, 97a:00043**
(Sucheston, Louis) *see* **Convergence in ergodic theory and probability, 97d:00018**
(Takahashi, Yōichirō) *see* **Algorithms, fractals, and dynamics, 97b:00014**
(Volčič, Aljoša) *see* **Workshop: Measure Theory and Real Analysis, 97c:00056**

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Algorithms, fractals, and dynamics ★ Algorithms, fractals, and dynamics. **97b:00014**
Aveiro ★ Developments in nonstandard mathematics. **97a:00043**
Colloquium:
Nonstandard Mathematics ★ Developments in nonstandard mathematics. **97a:00043**
Columbus, OH ★ Convergence in ergodic theory and probability. **97d:00018**
Conference:
Convergence in Ergodic Theory and Probability ★ Convergence in ergodic theory and probability. **97d:00018**
Convergence in ergodic theory and probability ★ Convergence in ergodic theory and probability. **97d:00018**
Developments in nonstandard mathematics ★ Developments in nonstandard mathematics. **97a:00043**
Festschrift:
Sucheston, Louis ★ Convergence in ergodic theory and probability. **97d:00018**
Grado ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **97c:00056**
Kyoto ★ Algorithms, fractals, and dynamics. **97b:00014**
Okayama ★ Algorithms, fractals, and dynamics. **97b:00014**
Symposium:
Algorithms, Fractals and Dynamics ★ Algorithms, fractals, and dynamics. **97b:00014**
New Bases for Engineering Science, Algorithms, Dynamics and Fractals ★ Algorithms, fractals, and dynamics. **97b:00014**
Workshop:
Measure Theory and Real Analysis ★ Workshop di Teoria della Misura e Analisi Reale. [Workshop on Measure Theory and Real Analysis] **97c:00056**

28Axx Classical measure theory

Items with secondary classifications in 28Axx

(Hausdorff, Felix) *see* **Schreiber, Peter, (97m:01096)**
Schreiber, Peter Felix Hausdorffs paradoxe Kugelzerlegung im Kontext der Entwicklung von Mengenlehre, Maßtheorie und Grundlagen der Mathematik. [Felix Hausdorff's paradox decomposition of a ball, in the context of the development of set theory, measure theory and the foundations of mathematics] (*see* **97m:01096**)

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 04A15, 26A21, 54H05]

Balcerzak, Marek (*with* Rosłanowski, Andrzej) Coinitial families of perfect sets. (English summary) **97g:28001**
— (*with* Peredko, Joanna; Pawlikowski, Janusz) On Fubini-type theorems. (English summary) **97b:28001**
— (*with* Wojdowski, Wojciech; Renfro, Dave L.) On unions of porous sets. (English summary) **97k:28001**
— (*with* Świątkowski, Tadeusz) On ideals generating a given σ-ideal. (English and Polish summaries) **97f:28002**
— On Borel sets modulo a σ-ideal. **97k:28002**
Cao, Huai Xin Mapping invariance of Lebesgue measurability. (Chinese. English and Chinese summaries)
Coleman, Eoin Non-measurable sets and translation invariance. **97c:28001**
Ganguly, D. K. (*with* Majumdar, Madhabendu) On the ratio set of some linear sets of positive measure. (English summary) **97k:28003**
Hejduk, Jacek (*with* Kharazishvili, A. B.) On density points with respect to von Neumann's topology. (English summary) **97b:28002**
Járai, Antal A Steinhaus type theorem. (English summary) **97g:28002**
Kharazishvili, A. B. Some remarks on the property (N) of Luzin. (English summary) **97c:28002**
— On translations of sets and functions. (English summary) **97d:28002**
— On the Steinhaus property for invariant measures. (English summary) **97j:28002**
— *see also* **Hejduk, Jacek, 97b:28002**
Laczkovich, Miklós Decomposition using measurable functions. (English and French summaries) **97k:28004**
Majumdar, Madhabendu *see* **Ganguly, D. K., 97k:28003**
Mauldin, R. Daniel Analytic non-Borel sets modulo null sets. (English summary) **97c:28003**
Nath, Mrityunjoy *see* **Pal, Mukul, 97c:28004**
Pal, Mukul (*with* Panda, Santimoy) On properties of sets under certain transformations. (English summary) **97j:28003**
— (*with* Nath, Mrityunjoy) On a measurable set. (English summary) **97c:28004**
Panda, Santimoy *see* **Pal, Mukul, 97j:28003**
Pawlikowski, Janusz A characterization of strong measure zero sets. (English summary) **97f:28003**
— *see also* **Balcerzak, Marek; et al., 97b:28001**
Peredko, Joanna *see* **Balcerzak, Marek; et al., 97b:28001**
Rath, Kali P. On the representation of sets in finite measure spaces. (English summary) **97c:28005**

Ray, Kamakhya Charan (*with* Ray, Koushik) On transformations of measurable sets in $\mathbf{R}_N$. (English summary) **97f:28004**
Ray, Koushik *see* **Ray, Kamakhya Charan**, **97f:28004**
Renfro, Dave L. Porosity, nowhere dense sets and a theorem of Denjoy. (English summary) **97j:28004**
— *see also* **Balcerzak, Marek; et al.**, **97k:28001**
Rosłanowski, Andrzej *see* **Balcerzak, Marek**, **97g:28001**
Świątkowski, Tadeusz *see* **Balcerzak, Marek**, **97f:28002**
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Abud, Zara I. (*with* Miraglia, Francisco) A measure-theoretic Erdös-Rado theorem. **97d:04002**
Balcerzak, Marek (*with* Wroński, Stanisław) On σ-ideals without maximal extensions. (English and Polish summaries) **97f:04002**
Choban, M. M. Descriptive set theory and topology. (*see* **97f:54001**)
(Duda, Roman) *see* **Marczewski, Edward**, **97c:01052**
Halko, Aapo Negligible subsets of the generalized Baire space $\omega_1^{<\omega_1}$. **97h:03073**
(Hartman, Stanisław) *see* **Marczewski, Edward**, **97c:01052**
Holický, Petr Luzin theorems for scattered-K-analytic spaces and Borel measures on them. (English summary) **97j:54038**
(Hulanicki, Andrzej) *see* **Marczewski, Edward**, **97c:01052**
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Kechris, Alexander S. On the concept of $\mathbf{\Pi}^1_1$-completeness. (English summary) **97g:03052**
Kharazishvili, A. B. Some remarks on additive properties of invariant σ-ideals on the real line. (English summary) **97g:28021**
Komjáth, Péter A note on set mappings with meager images. (English summary) **97b:03064**
(Lipecki, Zbigniew) *see* **Marczewski, Edward**, **97c:01052**
Marczewski, Edward ★ Collected mathematical papers. **97c:01052**
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Scheepers, Marion The least cardinal for which the Baire category theorem fails. **97d:03063**
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Zelený, Miroslav The Banach-Mazur game and σ-porosity. (English summary) **97h:54035**
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28A10 Real- or complex-valued set functions

Niizeki, Syozo On some limit theorems for Hahn decomposition of Ω with respect to real measure. **97m:28001**

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Fodor, János C. *see* **Dubois, Didier; et al.**, **97g:90018**
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Pap, Endre *see* **de Lucia, Paolo**, **97f:28005**
Prade, Henri *see* **Dubois, Didier; et al.**, **97g:90018**
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Ylinen, Kari Positive operator bimeasures and a noncommutative generalization. (English summary) **97m:28013**
Zhikov, V. V. Connectedness and averaging. Examples of fractal conductivity. (Russian. Russian summary) **97h:35016**

28A12 Contents, measures, outer measures, capacities

Barbanel, Julius B. Super envy-free cake division and independence of measures. (English summary) **97c:28006**
Drewnowski, Lech (*with* Florencio, Miguel; Paúl, Pedro J.) Some new classes of rings of sets with the Nikodym property. (English summary) **97m:28002**
Émilion, Richard Différentiation des capacités et des intégrales de Choquet. (English and French summaries) [Differentiation of capacities and Choquet integrals] **97m:28003**
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Hsu, Pao-Sheng Applications of outer measures to separation properties of lattices and regular or σ-smooth measures. (English summary) **97b:28003**
Jacopini, Giuseppe A translation-invariant measure extending Lebesgue measure on the line. (Italian. French and Italian summaries) **97b:28004**
Kämpke, Thomas Lower probabilities and function representation. (English summary) **97k:28005**
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Pap, Endre *see* **de Lucia, Paolo**, **97f:28005**
Paúl, Pedro J. *see* **Drewnowski, Lech; et al.**, **97m:28002**
Peres, Yuval (*with* Solomyak, Boris) Absolute continuity of Bernoulli convolutions, a simple proof. (English summary) **97f:28006**
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O'Brien, George L. Sequences of capacities, with connections to large-deviation theory. (English summary) **97f:60065**
— The research of Wim Vervaat. (English summary) **97k:01041**
Pap, Endre ★ Null-additive set functions. (English summary) **97b:28025**
Ponnley, James Outer measures, measurability, and lattice regular measures. (English summary) **97b:28017**
(Vervaat, Wim) *see* **O'Brien, George L.**, **97k:01041**

28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Krugova, E. P. Differentiability of convex measures. (Russian. Russian summary) **97g:28003**
Oniani, G. T. On strong maximal operators corresponding to different frames. (English summary) **97c:28007**
Rybárik, Ján g-functions. (English summary) **97m:28004**
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Antosik, P. On composition of distributions. **97h:46057**
Berezhnoi, E. I. Differential properties of bases, and the bordering problem for symmetric spaces. (Russian. Russian summary) **97c:46036**
Ioffe, Alexandre D. (*with* Penot, Jean-Paul) Limiting sub-Hessians, limiting subjets and their calculus. (English summary) **97f:49019**
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28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Akcoglu, Mustafa (*with* King, Jonathan L.) An example of pointwise non-convergence of iterated conditional expectation operators. (English summary) **97d:28003**
King, Jonathan L. *see* **Akcoglu, Mustafa**, **97d:28003**
Klei, Heinz-Albrecht Measure convergent sequences in Lebesgue spaces and Fatou's lemma. (English summary) **97k:28008**
Lipovan, Octavian Some generalisations of measurable functions. (English summary) **97c:28008**
Miller, Arnold W. Souslin's hypothesis and convergence in category. **97g:28004**
Reardon, Patrick Ramsey, Lebesgue, and Marczewski sets and the Baire property. (English summary) **97j:28005**
Valadier, Michel A course on Young measures. **97k:28009**
Vera, G. Pointwise compactness and continuity of the integral. (English summary) **97k:28010**
Wilczyński, Władysław (*with* Wojdowski, Wojciech) Upper and lower limits with respect to the m-ideal. (English and Polish summaries) **97f:28009**
Wiśniewski, Andrzej Theorem of Kuratowski-Suslin for measurable mappings. (English summary) **97a:28002**
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Zsilinszky, László On measure spaces where Egoroff's theorem holds. (English summary) **97b:28006**

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Balder, Erik J. Connections between recent Olech-type lemmas and Visintin's theorem. (English summary) **97m:28012**
Brzdęk, Janusz The Christensen measurable solutions of a generalization of the Gołąb-Schinzel functional equation. (English summary) **97k:39023**
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Kružík, Martin (*with* Roubíček, Tomáš) Explicit characterization of L^p-Young measures. (English summary) **97f:49056**
Laczkovich, Miklós Decomposition using measurable functions. (English and French summaries) **97k:28004**
Mattila, Pertti (*with* Mauldin, R. Daniel) Measure and dimension functions: measurability and densities. **97k:28014**
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Nair, Radhakrishnan On Riemann sums and Lebesgue integrals. (English summary) **97a:26009**
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Pestman, Wiebe R. Measurability of linear operators in the Skorokhod topology. (English summary) **97a:46028**
Pruss, Alexander R. Nonexistence of maxima for perturbations of some inequalities with critical growth. (English summary) **97h:49020**
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Vladimirskiĭ, Yu. N. Equimeasurable sets and cylindrical measures. (Russian. Russian summary) **97g:60006**

28A25 Integration with respect to measures and other set functions

Kholopov, V. M. *see* **Poroshkin, A. G., (97f:00015)**
Kolesárová, Anna Integration of real functions with respect to a $\oplus$-measure. (English summary) **97k:28011**
Poroshkin, A. G. (*with* Kholopov, V. M.) On the passage to the limit under a nonadditive integral sign. (Russian. Russian summary) (*see* **97f:00015**)

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Mantica, Giorgio A stable Stieltjes technique for computing orthogonal polynomials and Jacobi matrices associated with a class of singular measures. (English summary) **97k:33011**

28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Adamski, Wolfgang The Alexandroff property for vector lattices of real-valued functions. (English summary) **97k:28012**
Aizpuru Tomás, Antonio The Nikodým property and local properties of Boolean algebras. **97f:28001**
Girotto, Bruno (*with* Holzer, Silvano) The topology of convergence in distribution of masses on the real line. (English and Italian summaries) **97f:28010**
Guo, Bao-Lin (*with* Sakai, Katsuro) Spaces of measures on stratifiable spaces. (English summary) **97f:28011**
Hernández-Lerma, Onésimo (*with* Lasserre, Jean B.) An extension of the Vitali-Hahn-Saks theorem. (English summary) **97f:28012**
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Popa, Dumitru On some classical theorems in measure theory. (English summary)
Sadovnichiĭ, Yu. V. Uniform spaces of probability measures. (Russian) **97c:28009**
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Dobrowolski, Tadeusz (*with* Sakai, Katsuro) Spaces of measures on metrizable spaces. (English summary) **97f:54038**
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Kim, Bong Jin Feynman's operational calculus applied to multiple integrals. (English summary) **97k:28028**
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28A35 Measures and integrals in product spaces

de Amo, Enrique (*with* Díaz Carrillo, Manuel) Intégrales supérieures de Fubini. (French summary) [Upper Fubini integrals] **97f:28015**
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Fan, Ai Hua On uniqueness of G-measures and g-measures. (English summary) **97j:28006**
Saeki, Sadahiro A proof of the existence of infinite product probability measures. **97h:28002**

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Latała, Rafał A note on the Ehrhard inequality. (English summary) **97d:60027**
Ledoux, Michel On Talagrand's deviation inequalities for product measures. (English summary) **97j:60005**
Macheras, N. D. (*with* Strauss, Werner) On products of almost strong liftings. (English summary) **97c:28010**
Strauss, Werner *see* **Macheras, N. D., 97c:28010**
Talagrand, Michel A new look at independence. (English summary) **97d:60028**
— How much are increasing sets positively correlated? (English summary) **97e:05031**

28A50 Integration and disintegration of measures

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Simpelaere, Dominique Multifractal of the Appolonian tiling. (English summary) **97h:58104**
Taylor, S. James The fractal analysis of Borel measures in $\mathbf{R}^d$. (English and French summaries) **97c:28021**

28A51 Lifting theory [see also 46G15]

Macheras, N. D. (*with* Strauss, Werner) On self-consistent families of almost strong liftings in projective systems. **97f:28016**
— (*with* Strauss, Werner) Products and projective limits of almost strong liftings. **97g:28006**
— (*with* Strauss, Werner) On products of almost strong liftings. (English summary) **97c:28010**
Strauss, Werner *see* **Macheras, N. D., 97c:28010; 97f:28016** *and* **97g:28006**

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Li, Daniel Complex unconditional metric approximation property for $\mathscr{C}_\Lambda(\mathbf{T})$ spaces. (English summary) **97k:43008**

28A60 Measures on Boolean rings, measure algebras [see also 54H10]

Ansari, Moinuddin Extended version of probability algebra. (English summary)
Barbanel, Julius B. On the possibilities for partitioning a cake. (English summary) **97j:28007**

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Mercourakis, Sophocles Some remarks on countably determined measures and uniform distribution of sequences. (English summary) **97j:28029**
Schaefer, Helmut H. (*with* Zhang, Xiao Dong[3]) Dixmier's theorem for sequentially order continuous Baire measures on compact spaces. **97c:28030**
Stratigos, P. D. Finitely subadditive outer measures, finitely superadditive inner measures and their measurable sets. (English summary) **97b:28005**
Todorčević, Stevo Random set-mappings and separability of compacta. (English summary) **97j:03099**
Zhang, Xiao Dong[3] *see* **Schaefer, Helmut H., 97c:28030**

28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49Q15]

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Dibos, Françoise Affine length and affine dimension of a 1-set of $\mathbf{R}^2$. (English summary) **97j:28008**
Fast, Henry The injectivity of the Crofton transform. (English summary) **97m:28005**
Foran, James Measure preserving continuous straightening of fractional-dimensional sets. (English summary) **97k:28013**
Hoory, S. (*with* Linial, Nathan) Central points for sets in $\mathbf{R}^n$ (or: The chocolate ice-cream problem). (English summary) **97e:28001**
Jørgensen, Palle E. T. (*with* Pedersen, Steen) Estimates on the spectrum of fractals arising from affine iterations. (English summary) **97f:28017**
Joyce, H. Conditions for equality of Hausdorff and packing measures on $\mathbf{R}^n$. (English summary) **97m:28006**
Král, Josef The divergence theorem. (English summary) **97f:28002**
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Lukkassen, Dag Averages over n-cells. (English summary) **97f:28018**
Mattila, Pertti Tangent measures, densities, and singular integrals. (English summary) **97j:28009**
— (*with* Preiss, David) Rectifiable measures in $\mathbf{R}^n$ and existence of principal values for singular integrals. **97c:28011**
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Nakamura, Munetaka On absolutely continuous invariant measures with respect to Hausdorff measures on self-similar sets. (English summary) **97d:28004**
Ngai, Sze-Man A dimension result arising from the L^q-spectrum of a measure. (English summary) **97m:28007**
O'Neil, T. C. A local version of the projection theorem. (English summary) **97c:28012**
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Ross, Marty Fundamental constructions in geometric measure theory. **97g:28008**
Semmes, Stephen W. Finding structure in sets with little smoothness. **97j:28010**

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Dai, Chaoshou Frostman lemma for Hausdorff measure and packing measure in probability spaces. (English and Chinese summaries) **97f:28021**
Delladio, Silvano Slicing of generalized surfaces with curvature measures and diameter's estimate. (English summary) **97h:49059**
Di Piazza, Luisa *see* **Bongiorno, Benedetto; et al., 97f:26018**
Itoh, Jin-ichi The length of a cut locus on a surface and Ambrose's problem. **97f:53038**
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Kufarev, B. P. On the length and area principle for planar mappings with bounded distortion. (Russian) **97f:26017**
MacManus, Paul Bi-Lipschitz extensions in the plane. (English summary) **97b:30028**
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Mattila, Pertti (*with* Paramonov, P. V.) On geometric properties of harmonic Lip_1-capacity. (English summary) **97b:31005**
Olsen, Lars Ole Rønnow Multifractal dimensions of product measures. (English summary) **97f:28026**
Paramonov, P. V. *see* **Mattila, Pertti, 97b:31005**
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Pruitt, William E. (*with* Taylor, S. James) Packing and covering indices for a general Lévy process. (English summary) **97g:60096**
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28A78 Hausdorff measures

Castro González, Nieves (*with* Reyes, Miguel) Hausdorff measures and dimension on $\mathbf{R}^\infty$. (English summary) **97m:28008**
Dai, Chaoshou The determination of Hausdorff dimension and packing dimension in $\mathbf{R}^d$. (English and Chinese summaries) **97f:28020**
— Frostman lemma for Hausdorff measure and packing measure in probability spaces. (English and Chinese summaries) **97f:28021**
Drobot, Vladimir On the decomposition of the unit interval.
Gu, Rong Bao The Hausdorff dimension of the scrambled set of a self-mapping of a line segment. (Chinese)
Hu, Tian-You (*with* Lau, Ka-Sing) Hausdorff dimension of the level sets of Rademacher series. (English summary)
Hu, Xiao Yu The exact packing measure for a random re-ordering of the Cantor set. (English summary) **97e:28002**
Hua, Su (*with* Li, Wen Xia) Packing dimension of generalized Moran sets. (English summary)
Jiang, Hui Kun Multi-dimensions of fractal sets on $\mathbf{R}^n$. (English summary) **97j:28011**
Jung, Soon-Mo Counterexamples for metric dimensions of plane sets and their projections. **97j:28012**
Kifer, Yuri Fractals via random iterated function systems and random geometric constructions. (English summary) **97j:28013**
Kostadinov, S. I. (*with* Tzaneva, K.) On some generalization of the Hausdorff measure. (English summary) **97j:28014**
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Marstrand, J. M. Order-two density and the strong law of large numbers. **97f:28022**
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Morán, Manuel Hausdorff measure of infinitely generated self-similar sets. (English summary) **97j:28015**
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Bandt, Christoph (*with* Haase, Hermann) Die Wirkungen von Hausdorffs Arbeit über Dimension und äußeres Maß. [The influence of Hausdorff's paper "Dimension and outer measure"] (*see* **97m:01096**)
Bothe, Hans Günter (*with* Schmeling, Jörg) Die Hausdorff-Dimension in der Dynamik. [Hausdorff dimension in dynamics] (*see* **97m:01096**)
Chen, Gang[3] *see* **Wang, Hong Yong**
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Gruber, Peter M. How well can space be packed with smooth bodies? Measure-theoretic results. (English summary) **97c:52043**
Guo, Yu[1] (*with* Li, Xiao Li) The dimensions of a kind of series. (Chinese. English and Chinese summaries)
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(Hausdorff, Felix) *see* **Bandt, Christoph, (97m:01096); Steffen, Klaus, (97m:01096)** *and* **Bothe, Hans Günter, (97m:01096)**
Hensley, Douglas A polynomial time algorithm for the Hausdorff dimension of continued fraction Cantor sets. (English summary) **97i:11085a**
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Ikeda, Satoshi[2] On loosely self-similar sets. **97b:28009**
Joyce, H. Conditions for equality of Hausdorff and packing measures on $\mathbf{R}^n$. (English summary) **97m:28006**
Kenyon, Richard (*with* Peres, Yuval) Hausdorff dimensions of sofic affine-invariant sets. (English summary) **97h:58064**
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Liu, Quansheng The exact Hausdorff dimension of a branching set. (English summary) **97k:60229**
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Pesin, Ya. B. (*with* Weiss, Howard N.) A multifractal analysis of equilibrium measures for conformal expanding maps and Moran-like geometric constructions. (English summary) **97m:58118**
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— Corrigendum: "Multifractal decomposition of the Sierpiński carpet". **97j:58106b**
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Wu, Jun[2] Local properties of a statistical self-similarity measure. (Chinese. English and Chinese summaries) **97c:28022**

28A80 Fractals [see also 58Fxx]

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Aolibu Multifractals and localized systems. (Chinese. English and Chinese summaries) **97m:28009**
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— (*with* Li, Wen Xia; Wu, Min[1]) Multifractals of generalized Moran fractals. (Chinese. English and Chinese summaries) **97e:28004**
— *see also* **Li, Wen Xia, 97c:28019** *and* **Ren, Fu Yao; et al., 97f:28027**
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Chin, Wai (*with* Hunt, Brian R.; Yorke, James A.) Correlation dimension for iterated function systems. (English summary) **97j:28044**
Conze, J.-P. (*with* Raugi, A.) Fonctions propres pour un opérateur de transition. (French summary) [Eigenfunctions for a transition operator] **97g:60097**
Corbu, Sergiu (*with* Postolache, Mihai) On the image encoding with generating functions of probability.
(Corfield, David) *see* **Gouyet, Jean-François, 97d:58002**
Dai, Chaoshou The determination of Hausdorff dimension and packing dimension in $\mathbf{R}^d$. (English and Chinese summaries) **97f:28020**
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Foias, Ciprian (*with* Olson, Eric John) Finite fractal dimension and Hölder-Lipschitz parametrization. (English summary) **97m:58120**
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— (*with* Lapidus, Michel L.) Generalized Minkowski content, spectrum of fractal drums, fractal strings and the Riemann zeta-function. (English summary) **97j:35114**
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Hunt, Brian R. Maximum local Lyapunov dimension bounds the box dimension of chaotic attractors. (English summary) **97e:58143**

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Jiang, Hui Kun Multi-dimensions of fractal sets on $\mathbf{R}^n$. (English summary) **97j:28011**
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28A99 None of the above, but in this section

Burgin, M. S. Integral calculus for extrafunctions. (Ukrainian summary)
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Rothman, Jay Autocorrelation functions as translation invariants in L^1 and L^2. (English summary) **97a:43005**

28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

Balder, Erik J. Connections between recent Olech-type lemmas and Visintin's theorem. (English summary) **97m:28012**
Boccuto, Antonio Continuous invariant vector-valued means and applications. **97c:28023**
— Vitali-Hahn-Saks and Nikodym theorems for means with values in Riesz spaces. **97f:28030**
Canoy, Sergio R., Jr. (*with* Navarro, Milagros P.) A Denjoy-type integral for Banach-valued functions. (English summary) **97a:28007**
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Pechtl, A. Vector-valued integration in *BK*-spaces. (English summary) **97d:28011**
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Ricker, Werner J. Sequential closures of σ-subalgebras for a vector measure. (English summary) **97d:28012**
Romanov, V. A. Vector measures of different classes of smoothness and their limits. (Russian. English and Ukrainian summaries) **97c:28026**
Schwabik, Štefan Abstract Bochner and McShane integrals. (English summary) **97f:28032**
Wu, Cong Xin (*with* Yao, Xiao Bo) The McShane integral of vector-valued functions. (Chinese. English and Chinese summaries)
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Ylinen, Kari Positive operator bimeasures and a noncommutative generalization. (English summary) **97m:28013**

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Abudukelimu, Aji (*with* Bailikezi, Yunusi) Weak Riemann-Stieltjes integration in weakly complete Banach spaces. (Chinese. English and Chinese summaries) **97h:46072**
Bailikezi, Yunusi *see* **Abudukelimu, Aji, 97h:46072**
Berezhnoĭ, E. I. Differential properties of bases, and the bordering problem for symmetric spaces. (Russian. Russian summary) **97c:46036**
Cerf, Raphaël (*with* Mariconda, Carlo) Chebyshev measures. (English summary) **97m:41027**

Chen, Ze Qian (*with* Liu, Hong Mei) Parametrized measures and representation problems of a class of operators. (Chinese. English and Chinese summaries) **97h:47024**
De Lia, Anthony (*with* Mikusiński, Piotr) A Daniell-type integral with values in a Banach space. **97b:28012**
García-Vázquez, Juan Carlos Tensor products of vector measures and sequences in the range of a vector measure. (English summary) **97f:46030**
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Mariconda, Carlo *see* **Cerf, Raphaël**, **97m:41027**
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Papageorgiou, Nikolaos S. Transition vector measures and multimeasures and parametric set-valued integrals. (Russian summary) **97c:28029**
Peterburgsky, Irina On Pettis and Bochner integrability of abstract functions. (English summary) **97f:46081**
Popa, Dumitru On some classical theorems in measure theory. (English summary)
— Measures with relatively norm compact range and ∞-nuclear operators. (English summary) **97j:46045**
Qu, Kai She (*with* Luo, Yue Hu) The conditions for the correctness of the Newton-Leibniz formula on a Banach space. (Chinese. English and Chinese summaries) **97g:46058**
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— Complemented copies of l^1 and Pełczyński's property (V*) in Bochner function spaces. (English summary) **97j:46035**
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Soltani, A. Reza *see* **Nikfar, M.**, **97f:60086**
Srinivasan, S. K. (*with* Sudarshan, E. C. G.) A direct derivation of the Dirac equation via quaternion measures. (English summary) **97h:81042**
Sudarshan, E. C. G. *see* **Srinivasan, S. K.**, **97h:81042**
Vera, G. Pointwise compactness and continuity of the integral. (English summary) **97k:28010**
Yoon, Ju Han A note on the W*RNP in dual space. **97i:46032**

28B10 Group- or semigroup-valued set functions, measures and integrals

Boccuto, Antonio On Stone-type extensions for group-valued measures. (English summary) **97h:28004**
Candeloro, D. (*with* Martellotti, A.) Stochastic processes and applications to countably additive restrictions of group-valued finitely additive measures. (English summary) **97j:28025**
Hwang, Hong Taek (*with* Yoo, Won Sok) An improved version of Vitali-Hahn-Saks theorem. **97m:28014**
de Lucia, Paolo (*with* Salvati, Simonetta) A Cafiero characterization of uniform S-boundedness. (English summary) **97k:28019**
Martellotti, A. *see* **Candeloro, D.**, **97j:28025**
Panchapagesan, T. V. Abstract regularity of additive and σ-additive group-valued set functions. (English summary) **97c:28027**
Salvati, Simonetta *see* **de Lucia, Paolo**, **97k:28019**
Volauf, Peter On compact group-valued measures. (English summary) **97k:28020**
Yoo, Won Sok *see* **Hwang, Hong Taek**, **97m:28014**

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Basile, Achille From large economies to uniform semigroup-valued measures. (English summary) **97e:90019**
Dvurečenskij, Anatolij (*with* de Lucia, Paolo; Pap, Endre) On a decomposition theorem and its applications. (English summary) **97g:28017**
de Lucia, Paolo *see* **Dvurečenskij, Anatolij; et al.**, **97g:28017**
Pap, Endre *see* **Dvurečenskij, Anatolij; et al.**, **97g:28017**

28B15 Set functions, measures and integrals with values in ordered spaces

Boccuto, Antonio (*with* Sambucini, Anna Rita) On the De Giorgi-Letta integral with respect to means with values in Riesz spaces. (English summary) **97k:28021**
— Abstract integration in Riesz spaces. (English summary) **97c:28028**
Dvurečenskij, Anatolij (*with* de Lucia, Paolo; Pap, Endre) On a decomposition theorem and its applications. (English summary) **97g:28017**
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Boccuto, Antonio Continuous invariant vector-valued means and applications. **97c:28023**
— On Stone-type extensions for group-valued measures. (English summary) **97h:28004**
— Vitali-Hahn-Saks and Nikodym theorems for means with values in Riesz spaces. **97f:28030**
Lipovan, Octavian Some generalisations of measurable functions. (English summary) **97c:28008**
Riečanová, Zdenka On order continuity of quantum structures and their homomorphisms. **97j:81028**
Volauf, Peter On compact group-valued measures. (English summary) **97k:28020**

28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [see also 26E25, 54C60, 54C65, 90A14]

Couvreux, J. (*with* Hess, Christian) Mosco approximation of integrands and integral functionals. (English summary) **97m:28015**
Hess, Christian Epi-convergence of sequences of normal integrands and strong consistency of the maximum likelihood estimator. (English summary) **97g:28018**
— *see also* **Couvreux, J.**, **97m:28015**
Khan, M. Ali (*with* Sun, Yeneng) Integrals of set-valued functions with a countable range. (English summary) **97k:28022**
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Kwiecińska, Grażyna (*with* Ślęzak, Włodzimierz) On the sup-measurability of multifunctions whose values are allowed to be noncompact. (Polish summary)
Lechicki, A. (*with* Spakowski, A.; Urbaniec, P.) On measurable multifunctions in generalized metric spaces. (Italian summary) **97m:28016**
Li, Guo Cheng (*with* Xue, Xiao Ping) Extension theorems for set-valued measures. (Chinese. English and Chinese summaries)
Lipovan, Octavian Some properties of atomic and nonatomic multivalued measures. (English summary) **97a:28008**
Mi, Ju Sheng A Fatou-type lemma for multivalued conditional expectations. (Chinese. English and Chinese summaries) **97d:28013**
Papageorgiou, Nikolaos S. Transition vector measures and multimeasures and parametric set-valued integrals. (Russian summary) **97c:28029**
Ricceri, Biagio On the integrable selections of certain multifunctions. (English summary) **97g:28019**
Saint-Pierre, Jean (*with* Sajid, Saïd) Intégration de multifonctions par rapport à une mesure paramétrée. (English and French summaries) [Integration of multifunctions with respect to a parametrized measure] **97j:28026**
Sajid, Saïd *see* **Saint-Pierre, Jean**, **97j:28026**
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Wu, Wei Zhi Relationships among some notions of convergence for sequences of sets. (Chinese. English and Chinese summaries)
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Balder, Erik J. Connections between recent Olech-type lemmas and Visintin's theorem. (English summary) **97m:28012**
Basile, Achille From large economies to uniform semigroup-valued measures. (English summary) **97e:90019**
Dong, Wenlong (*with* Wang, Zhenpeng) On multivalued supermartingales with continuous parameter: martingale selectors and their regularity. (English summary) **97k:60133**
Ezzaki, Fatima A general dominated convergence theorem for unbounded random sets. (English summary) **97k:60009**
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28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

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Ha, Ming Hu (*with* Wu, Cong Xin; Song, Shi Ji) Weak convergence of sequences of fuzzy measures on metric spaces. (Chinese. English and Chinese summaries)

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— (*with* Klir, George J.; Wang, Wei[13]) Monotone set functions defined by Choquet integral. (English summary) **97a:28016**

— (*with* Klir, George J.; Wang, Wei[13]) Fuzzy measures defined by fuzzy integral and their absolute continuity. (English summary) **97f:28014**

— (*with* Klir, George J.) Choquet integrals and natural extensions of lower probabilities. (English summary) **97f:28015**

— (*with* Klir, George J.) PFB-integrals and PFA-integrals with respect to monotone set functions. (English summary) **97k:28047**

— *see also* **Li, Jun[4]; et al., 97m:28019** *and* **Wang, Wei[13]; et al.**

Wu, Cong RSu integral of interval-valued functions and fuzzy-valued functions redefined. (English summary) **97j:28047**

Wu, Cong Xin (*with* Guo, Cai Mei; Zhang, De Li) Seminorm fuzzy integrals of set-valued functions. (Chinese. Chinese summary)

— *see also* **Ha, Ming Hu; et al.**

Wu, Hsien-Chung Fuzzy-valued integrals of fuzzy-valued measurable functions with respect to fuzzy-valued measures based on closed intervals. (English summary)

Xu, Yang *see* **Zhang, Qiang[2]**

Yasuda, Masami *see* **Li, Jun[4]; et al., 97m:28019**

Zhang, De Li (*with* Guo, Cai Mei) Integrals of set-valued functions for $\perp$-decomposable measures. (English summary) **97a:28017**

— *see also* **Wu, Cong Xin; et al.**

Zhang, Guangquan (*with* Lu, Jie; Zhang, Yanchun) Complete extension of non-additive lattice valued measure on the lattice. (English summary) **97k:28048**

Zhang, Qiang[2] (*with* Xu, Yang) Lebesgue decompositions of signed fuzzy measures. (Chinese. English and Chinese summaries)

Zhang, Yanchun *see* **Zhang, Guangquan; et al., 97k:28048**

Zhao, Hui (*with* Lu, Shu Juan) Convergence in measure in fuzzy measure spaces. (Chinese. English and Chinese summaries)

Items with secondary classifications in 28E10

Baldwin, J. F. (*with* Lawry, J.; Martin, T. P.) A mass assignment theory of the probability of fuzzy events. (English summary) **97g:68214**

Benvenuti, Pietro (*with* Vivona, Doretta; Divari, Maria) On fuzziness measures via Sugeno's integral. (English summary) (*see* **97e:04009**)

Bosc, Patrick (*with* Lietard, Ludovic) Monotonous quantifications and Sugeno fuzzy integrals. (English summary) (*see* **97e:04009**)

De Baets, Bernard *see* **Tsiporkova-Hristoskova, Elena; et al., 97h:03049**

Divari, Maria *see* **Benvenuti, Pietro; et al., (97e:04009)**

Dvurečenskij, Anatolij (*with* de Lucia, Paolo; Pap, Endre) On a decomposition theorem and its applications. (English summary) **97g:28017**

Gerstenkorn, Tadeusz (*with* Mańko, Jacek) On probability and independence in intuitionistic fuzzy set theory. (English summary)

Hougaard, Jens Leth (*with* Keiding, Hans) Representation of preferences on fuzzy measures by a fuzzy integral. (English summary) **97c:90012**

Joslyn, Cliff Aggregation and completion of random sets with distributional fuzzy measures. (English summary) **97j:04005**

Keiding, Hans *see* **Hougaard, Jens Leth, 97c:90012**

Kerre, Etienne E. *see* **Tsiporkova-Hristoskova, Elena; et al., 97h:03049**

Lawry, J. *see* **Baldwin, J. F.; et al., 97g:68214**

Lebedev, A. A. (*with* Lebedev, Vladimir Alexandrovich) A generalization of mathematical expectation for a unified description of random and indeterminate factors. (Russian. Russian summary) **97c:60006**

Lebedev, Vladimir Alexandrovich *see* **Lebedev, A. A., 97c:60006**

Li, Lu Shu *see* **Yue, Zhong Liang**

Li, Qing-De The random set and the cutting of random fuzzy sets. (English summary) **97j:60023**

Lietard, Ludovic *see* **Bosc, Patrick, (97e:04009)**

Liu, Li Ping[1] A theory of Gaussian belief functions. (English summary) **97c:68153**

de Lucia, Paolo *see* **Dvurečenskij, Anatolij; et al., 97g:28017**

Mańko, Jacek *see* **Gerstenkorn, Tadeusz**

Marková, Andrea Pseudo-linear algebra. (English summary) **97c:15051**

Martin, T. P. *see* **Baldwin, J. F.; et al., 97g:68214**

Pap, Endre *see* **Dvurečenskij, Anatolij; et al., 97g:28017**

Pham, T. D. (*with* Yan, H.) A kriging fuzzy integral. (English summary) **97j:68124**

Stojaković, Mila (*with* Stojaković, Zoran) Support functions for fuzzy sets. (English summary) **97c:03131**

Stojaković, Zoran *see* **Stojaković, Mila, 97c:03131**

Tsiporkova-Hristoskova, Elena (*with* De Baets, Bernard; Kerre, Etienne E.) Upper and lower possibilities and necessities induced by a fuzzy multivalued mapping. (English summary) **97h:03049**

Vivona, Doretta Mathematical aspects of the theory of measures of fuzziness. (English summary) **97e:04008**

— *see also* **Benvenuti, Pietro; et al., (97e:04009)**

Yan, H. *see* **Pham, T. D., 97j:68124**

Yue, Zhong Liang (*with* Li, Lu Shu) Conditional λ-independence of fuzzy events. (Chinese. English and Chinese summaries)

28E15 Other connections with logic and set theory

Items with secondary classifications in 28E15

Höhle, Ulrich MV-algebra valued filter theory. (English summary) **97l:03021**

Laczkovich, Miklós Decomposition using measurable functions. (English and French summaries) **97k:28004**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bak, Joseph (*with* Newman, Donald J.) ★ Complex analysis. (English summary)
Desbrow, Darrell On zero derivatives.
Newman, Donald J. *see* **Bak, Joseph**
Rahman, Matiur ★ Complex variables and transform calculus. (English summary)
Trapp, Heinz W. ★ Funktionentheorie einer Veränderlichen. (German. German summary) [Function theory of one variable] **97g:30001**

Items with secondary classifications in 30–01

Fulton, William ★ Algebraic topology. (English summary) **97b:55001**
Hille, Einar ★ Ordinary differential equations in the complex domain. (English summary) **97m:34001**
Shilov, G. E. ★ Elementary real and complex analysis. (English summary) **97a:00003**
(Silverman, Richard A.) *see* **Shilov, G. E., 97a:00003**
Watson, G. N. *see* **Whittaker, E. T., 97k:01072**
Whittaker, E. T. (*with* Watson, G. N.) ★ A course of modern analysis. (English summary) **97k:01072**

30–02 Research exposition (monographs, survey articles)

(Colliander, James E.) *see* **Rubel, Lee A., 97c:30001**
Levin, B. Ya. ★ Lectures on entire functions. (English summary) **97j:30001**
(Lyubarskiĭ, Yu. I.) *see* **Levin, B. Ya., 97j:30001**
Rubel, Lee A. ★ Entire and meromorphic functions. (English summary) **97c:30001**
(Sodin, Mikhaĭl) *see* **Levin, B. Ya., 97j:30001**
(Tkachenko, Vadim Aleksandrovich) *see* **Levin, B. Ya., 97j:30001**

Items with secondary classifications in 30–02

Astala, Kari (*with* Zinsmeister, Michel) Rectifiability in Teichmüller theory. **97c:30048**
Borwein, Peter (*with* Erdélyi, Tamás) ★ Polynomials and polynomial inequalities. **97e:41001**
Erdélyi, Tamás *see* **Borwein, Peter, 97e:41001**
Zinsmeister, Michel *see* **Astala, Kari, 97c:30048**

30–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 30–03

(Abbe, Ernst) *see* **Riemann, Georg Friedrich Bernhard, 97d:01041**
Belhoste, Bruno Autour d'un mémoire inédit: la contribution d'Hermite au développement de la théorie des fonctions elliptiques. (English and French summaries) [On an unpublished paper: Hermite's contribution to the development of the theory of elliptic functions] **97g:01014**
(Cassinet, Jean) *see* **Stieltjes, Thomas Jan, 97i:01054a**
Hayman, W. K. Nevanlinna theory 1945–1995. **97m:30034**
Hurwitz, Adolf Über die Bedingungen, unter welchen eine Gleichung nur Wurzeln mit negativen reellen Theilen besitzt. [On the conditions under which an equation has only roots with negative real parts] **97i:01017**
Khvedelidze, B. (*with* Manjavidze, G.) A survey of N. I. Muskhelishvili's scientific heritage. **97a:01054**
Manjavidze, G. *see* **Khvedelidze, B., 97a:01054**
(Muskhelishvili, N. I.) *see* **Khvedelidze, B., 97a:01054**
(Neuenschwander, Erwin) *see* **Riemann, Georg Friedrich Bernhard, 97d:01041**
Riemann, Georg Friedrich Bernhard ★ Riemanns Einführung in die Funktionentheorie. (German) [Riemann's introduction to function theory] **97d:01041**
Schlote, Karl-Heinz Hermann Günther Grassmann and the theory of hypercomplex number systems. **97m:01046**
Stieltjes, Thomas Jan Recherches sur les fractions continues. [Investigation of continued fractions] **97i:01054a**
— Recherches sur les fractions continues. [Investigation of continued fractions] **97i:01054b**
Tutschke, Wolfgang Results and problems in the theory of generalized analytic functions and its influence on the present development of mathematical analysis. (English summary) (*see* **97d:00020**)

Items listed otherwise than by author

Anniversary:
Death of Stieltjes, Thomas Joannes *see* **Stieltjes, Thomas Jan, 97i:01054a**
Bibliography:
History of the effect of Riemannian function theory *see* **Riemann, Georg Friedrich Bernhard, 97d:01041**

30–04 Explicit machine computation and programs (not the theory of computation or programming)

Khazanov, V. B. *see* **Kublanovskaya, V. N., 97i:30001**
Kublanovskaya, V. N. (*with* Khazanov, V. B.) Relative factorization of polynomials in several variables. (Russian. Russian summary) **97i:30001**

30–06 Proceedings, conferences, collections, etc.

(Laine, Ilpo) *see* **Colloquium: Nevanlinna, Rolf, 97g:30002**
(Martio, Olli) *see* **Colloquium: Nevanlinna, Rolf, 97g:30002**
(Nevanlinna, Rolf) *see* **Colloquium: Nevanlinna, Rolf, 97g:30002**

Items listed otherwise than by author

Anniversary:
Birth of Nevanlinna, Rolf ★ XVIth Rolf Nevanlinna Colloquium. **97g:30002**
Colloquium:
Nevanlinna, Rolf ★ XVIth Rolf Nevanlinna Colloquium. **97g:30002**
Joensuu ★ XVIth Rolf Nevanlinna Colloquium. **97g:30002**

Items with secondary classifications in 30–06

(Ali, Rosihan M.) *see* **Computational methods and function theory, 97d:00016**
(Bottazzini, Umberto) *see* **Studies in the history of modern mathematics, 97m:01005**
(Lawrynowicz, Julian) *see* **Generalizations of complex analysis and their applications in physics, 97d:00021** *and* **97j:00018**
(Mshimba, Ali Seif) *see* **Functional analytic methods in complex analysis and applications to partial differential equations, 97d:00020**
(Quine, J. R.) *see* **Extremal Riemann surfaces, 97g:00020**
(Ruscheweyh, Stephan) *see* **Computational methods and function theory, 97d:00016**
(Saff, Edward B.) *see* **Computational methods and function theory, 97d:00016**
(Sarnak, Peter) *see* **Extremal Riemann surfaces, 97g:00020**
(Tamrazov, P. M.) *see* **Generalizations of complex analysis and their applications in physics, 97d:00021**
(Tutschke, Wolfgang) *see* **Functional analytic methods in complex analysis and applications to partial differential equations, 97d:00020**

Items listed otherwise than by author

Computational methods and function theory ★ Computational methods and function theory 1994. **97d:00016**
Conference:
Analytic Functions ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
Computational Methods and Function Theory ★ Computational methods and function theory 1994. **97d:00016**
Contemporary Mathematics ★ Extremal Riemann surfaces. **97g:00020**
Extremal Riemann surfaces ★ Extremal Riemann surfaces. **97g:00020**
Functional analytic methods in complex analysis and applications to partial differential equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Generalizations of complex analysis and their applications in physics ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
Meeting:
American Mathematical Society ★ Extremal Riemann surfaces. **97g:00020**
Penang ★ Computational methods and function theory 1994. **97d:00016**
Rynia ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
San Francisco, CA ★ Extremal Riemann surfaces. **97g:00020**
Seminar:
Deformations of Mathematical Structures Applied in Physics ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
Session:
Extremal Riemann Surfaces ★ Extremal Riemann surfaces. **97g:00020**
Studies in the history of modern mathematics ★ Studies in the history of modern mathematics. II. **97m:01005**
Symposium:
Generalizations of Complex Analysis and their Applications in Physics ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
Trieste ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Warsaw ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**
Workshop:
Functional Analytic Methods in Complex Analysis and Applications to Partial Differential Equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Generalizations of Complex Analysis ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
— ★ Generalizations of complex analysis and their applications in physics. **97j:00018**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Bartnik, Dorota On some class of functions generated by complex functions of bounded variation. (English summary) **97d:30001**
Roşculeţ, M. N. Dérivées partielles aréolaires sur des algèbres commutatives. VI. Équations aux dérivées partielles aréolaires sur des algèbres à base finie. (English, French and Romanian summaries) [Areolar partial derivatives on commutative algebras. VI. Areolar partial differential equations on algebras with finite basis]
— Dérivées partielles aréolaires sur des algèbres commutatives. VII. Équation aux dérivées volumétriques sur des algèbres à base finie. (English, French and Romanian summaries) [Areolar partial derivatives on commutative algebras. VII. Volumetric derivative equation on an algebra with finite basis]

— Dérivées partielles aréolaires sur des algèbres commutatives. IX. Équations aux dérivées partielles aréolaires sur une algèbre à base infinie. (English, French and Romanian summaries) [Areolar partial derivatives on commutative algebras. IX. Areolar partial differential equations on an algebra with infinite basis]
Telyakovskiĭ, D. S. On the holomorphy of functions that specify angle-preserving mappings. (Russian) **97c:30002**

Items with secondary classifications in 30A05

Gomonov, S. A. On the structure of limit sets of polyanalytic functions at isolated singular points. (Russian. Russian summary) **97c:30050**

30A10 Inequalities in the complex domain

Govil, N. K. (*with* Vetterlein, David H.) Inequalities for a class of polynomials sastisfying $p(z) \equiv z^n p(1/z)$. (English summary) **97i:30002**
Kayumov, I. R. Generalization and application of a theorem of Radon. (Russian) **97m:30001**
Liu, Ming Sheng An inequality for some classes of univalent functions. (Chinese)
Vetterlein, David H. *see* **Govil, N. K., 97i:30002**
Wang, Guan Min Further improvements of norm estimates for higher derivatives of analytic functions. (Chinese. English and Chinese summaries) **97e:30001**

Items with secondary classifications in 30A10

Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli) Some local convexity theorems for the zeta-function-like analytic functions. II. **97a:11130**
Frappier, Clément (*with* Qazi, Mohammed A.) Asymptotic inequalities for polynomials with restricted coefficients. (English summary) **97g:30004**
— (*with* Qazi, Mohammed A.) Asymptotic inequalities related to the maximum modulus of a polynomial. (English summary) **97g:30005**
Juneja, O. P. (*with* Ponnusamy, S.; Rajasekaran, S.) Two point distortion and rotation theorems. (English summary) **97b:30017**
Kim, Yong Chan (*with* Lee, Jin Seop) Distortion theorems for operators associated with a certain class of analytic functions. (English summary) **97k:47011**
Kirjackis, Edward G. Some estimates for the nth separated difference of a function that is analytic in a convex domain. (Russian. Lithuanian summary) **97d:30029**
Kortram, Ronald A. Support points of K. (English summary) **97e:30043**
Lee, Jin Seop *see* **Kim, Yong Chan, 97k:47011**
Mohammad Shah, Wali A generalization of a theorem of Paul Turan. **97e:30007**
Ponnusamy, S. *see* **Juneja, O. P.; et al., 97b:30017**
Qazi, Mohammed A. *see* **Frappier, Clément, 97g:30004** *and* **97g:30005**
Rajasekaran, S. *see* **Juneja, O. P.; et al., 97b:30017**
Ramachandra, Kanakanahalli *see* **Balasubramanian, Ramachandran, 97a:11130**

30A99 None of the above, but in this section

Feng, Lu Xiang Determining analytic functions from their real or imaginary parts. (Chinese. Chinese summary)

Items with secondary classifications in 30A99

Render, Hermann (*with* Sauer, Andreas) Invariance properties of homomorphisms on algebras of holomorphic functions with the Hadamard product. (English summary) **97g:46067**
Sauer, Andreas *see* **Render, Hermann, 97g:46067**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Gehlen, Wolfgang Note on the sharpness of Jentzsch's theorem. (English summary) **97b:30001**
— Overconvergent power series and conformal maps. (English summary) **97a:30001**
Handelman, David Eventual positivity for analytic functions. **97d:30002**
Hilberdink, Titus On the Taylor coefficients of the composition of two analytic functions. (English summary) **97b:30002**
Nestoridis, Vassili Universal Taylor series. (English and French summaries) **97k:30001**
Norfolk, Timothy S. Zero-free regions for sequences of Maclaurin polynomials. (English summary) **97c:30003**

Items with secondary classifications in 30B10

Aliadi, Krishnaswami The quintuple product identity and shifted partition functions. (English summary) **97j:33035**
Avkhadiev, F. G. (*with* Kayumov, I. R.) Estimates for Bloch functions and their generalization. (English summary) **97d:30045**
Bohman, J. (*with* Fröberg, Carl-Erik) Heuristic investigation of chaotic mapping producing fractal objects. (English summary) **97k:28016**
Braaksma, B. L. J. (*with* Stark, Dudley) A Darboux-type theorem for slowly varying functions. (English summary) **97m:41034**
Fröberg, Carl-Erik *see* **Bohman, J., 97k:28016**
Kayumov, I. R. *see* **Avkhadiev, F. G., 97d:30045**
Koepf, Wolfram Symbolic computation of formal power series with MACSYMA. (English summary) (*see* **97d:00020**)
Render, Hermann (*with* Sauer, Andreas) Algebras of holomorphic functions with Hadamard multiplication. (English summary) **97b:46070**
Sauer, Andreas *see* **Render, Hermann, 97b:46070**
Stadtmüller, Karin On the zero distribution of the Riesz transforms of power series. (Russian summary) **97b:30003**
Stark, Dudley *see* **Braaksma, B. L. J., 97m:41034**

30B20 Random power series

Items with secondary classifications in 30B20

Bohman, J. (*with* Fröberg, Carl-Erik) Heuristic investigation of chaotic mapping producing fractal objects. (English summary) **97k:28016**
Fröberg, Carl-Erik *see* **Bohman, J., 97k:28016**
Ibragimov, I. A. (*with* Zeitouni, Ofer) On roots of random polynomials. (English summary) **97h:60050**
Zeitouni, Ofer *see* **Ibragimov, I. A., 97h:60050**

30B30 Boundary behavior of power series, over-convergence

Gvaradze, M. On the two questions of Lohwater and Piranian. (English summary) **97k:30002**

Items with secondary classifications in 30B30

Dumas, Philippe (*with* Flajolet, Philippe) Asymptotique des récurrences mahlériennes: le cas cyclotomique. (English and French summaries) [Asymptotics of Mahler recurrences: the cyclotomic case] **97f:39029**
Flajolet, Philippe *see* **Dumas, Philippe, 97f:39029**
Fruchard, Augustin La falaise d'un polynôme de Taylor. (English and French summaries) [The cliff of a Taylor polynomial] **97j:03122**
Gehlen, Wolfgang Note on the sharpness of Jentzsch's theorem. (English summary) **97b:30001**
Lusky, Wolfgang On generalized Bergman spaces. (English summary) **97e:46022**
Nestoridis, Vassili Universal Taylor series. (English and French summaries) **97k:30001**
Settu, S. A. Series to series regular transformations and uniform convergence. (English summary) **97k:40002**

30B40 Analytic continuation

Pritsker, I. E. (*with* Varga, Richard S.) Boundary singularities of Faber and Fourier series. (English summary) **97e:30002**
Shibata, Keiichi On the analytic function with assigned singularity. (English summary) **97i:30003**
Varga, Richard S. *see* **Pritsker, I. E., 97e:30002**

Items with secondary classifications in 30B40

Anderson, James Milne (*with* Khavinson, Dmitry; Shapiro, Harold S.) Analytic continuation of Dirichlet series. **97a:30002**
Björn, Anders Removable singularities for Hardy spaces in subdomains of **C**. (English summary) **97h:30052**
Dovgoshei, A. A. Analytic continuation of functions from compact sets of zero logarithmic capacity. (Russian. English summary) **97j:30017**
— Chebyshev approximation by polynomials on a closed subset with a unique limit point, and the analytic continuation of functions. (Russian. English and Ukrainian summaries) **97e:41010**
Essouabri, Driss Prolongement méromorphe des séries de Dirichlet à support dans un sous-ensemble semi-algébrique de $\mathbf{R}^n$. (English and French summaries) [Meromorphic continuation of Dirichlet series with support in a semialgebraic subset of $\mathbf{R}^n$] **97k:30004**
Khavinson, Dmitry *see* **Anderson, James Milne; et al., 97a:30002**
Shapiro, Harold S. *see* **Anderson, James Milne; et al., 97a:30002**
Walter, Gilbert G. *see* **Zayed, Ahmed I., 97g:42034**
Zayed, Ahmed I. (*with* Walter, Gilbert G.) Characterization of analytic functions in terms of their wavelet coefficients. (English summary) **97g:42034**
Zverovich, È. I. Continuation of meromorphic functions by symmetry. (Russian. English and Russian summaries) **97a:30034**

30B50 Dirichlet series and other series expansions, exponential series [see also 11M41, 42–XX]

Abou-Tair, Ibrahim A. On a certain class of Dirichlet series. (English summary) **97d:30003**
Anderson, James Milne (*with* Khavinson, Dmitry; Shapiro, Harold S.) Analytic continuation of Dirichlet series. **97a:30002**
Berland, Marcel On the lower type of order of functions defined by B and L-Dirichletian elements. (English summary) **97k:30003**
Essouabri, Driss Prolongement méromorphe des séries de Dirichlet à support dans un sous-ensemble semi-algébrique de $\mathbf{R}^n$. (English and French summaries) [Meromorphic continuation of Dirichlet series with support in a semialgebraic subset of $\mathbf{R}^n$] **97k:30004**
Khavinson, Dmitry *see* **Anderson, James Milne; et al., 97a:30002**
Kumar, Niraj On a class of entire functions represented by Taylor Dirichlet series. (English summary) **97k:30005**
Shapiro, Harold S. *see* **Anderson, James Milne; et al., 97a:30002**
Yu, Jiarong Almost sure and quasi-sure growth of Dirichlet series. (English summary) **97k:30006**

Items with secondary classifications in 30B50

Delange, Hubert Sur un certain procédé de sommation des séries divergentes. (French summary) [On a certain summation procedure for divergent series] **97a:40002**
Jorgenson, Jay (*with* Lang, Serge) Extension of analytic number theory and the theory of regularized harmonic series from Dirichlet series to Bessel series. **97f:11072**
Lang, Serge *see* **Jorgenson, Jay, 97f:11072**
Lê Hai Khôi Holomorphic Dirichlet series in several variables. **97c:32002**
Srinivasan, V. K. Topological linear spaces of entire Dirichlet series. (English summary) **97a:46029**
— Topological algebra of entire Dirichlet series. (English summary) **97b:46090**
Vijai, Vinita On the order and type of an entire function of several complex variables represented by multiple Dirichlet series. (English summary) **97b:32001**
— On the mean values of an entire function in several complex variables represented by multiple Dirichlet series. **97m:32002**

Vinnitskiĭ, B. V. Approximation properties of systems of exponentials in a space of analytic functions. (Russian. English and Ukrainian summaries) **97k:46029**

30B60 Completeness problems, closure of a system of functions

Items with secondary classifications in 30B60

Rusev, Pet″r K. Complete systems of Kummer and Weber-Hermite functions in spaces of holomorphic functions. (English summary) **97h:33010**

30B70 Continued fractions [see also 11A55, 40A15]

Aebischer, B. Stable convergence of sequences of Möbius transformations. (English summary) **97i:30004**
Bender, Carl M. (*with* Vinson, Jade P.) Summation of power series by continued exponentials. (English summary) **97i:30005**
Common, A. K. (*with* McCabe, J. H.) The symmetric strong moment problem. (English summary) **97e:30003**
Gill, John A note on bounds for the derivatives of continued fractions. (English summary) **97g:30003**
Kuchminskaya, Kh. I. The Lane-like theorem for two-dimensional continued fractions. **97e:30004**
Li, Jia Liang On the growth of meromorphic functions defined by quasi-regular c-fractions. (English summary) **97e:30005**
McCabe, J. H. *see* **Common, A. K., 97e:30003**
Reid, Walter M. On factorable twin-convergence regions corresponding to best twin-value regions for continued fractions $K(a_n/1)$. (English summary) **97e:30006**
Vinson, Jade P. *see* **Bender, Carl M., 97i:30005**

Items with secondary classifications in 30B70

Craviotto, Cathleen M. (*with* Jones, William B.; Thron, W. J.; Wyshinski, Nancy J.) Computation of special functions by Padé approximants with orthogonal polynomial denominators. (English summary) **97g:65050**
Jones, William B. *see* **Craviotto, Cathleen M.; et al., 97g:65050**
Lorentzen, Lisa A convergence question inspired by Stieltjes and by value sets in continued fraction theory. (English summary) **97b:30038**
— Computation of limit periodic continued fractions. A survey. (English summary) **97c:40001**
— Continued compositions of linear fractional transformations. **97d:30031**
Sil′vestrov, S. D. (*with* Wallin, Hans) Representations of algebras associated with a Möbius transformation. (English summary) **97a:47052**
Thron, W. J. *see* **Craviotto, Cathleen M.; et al., 97g:65050**
Tokarzewski, Stanisław Two-point Padé approximants for the expansions of Stieltjes functions in real domain. (English summary) **97j:30019**
— N-point Padé approximants to real-valued Stieltjes series with nonzero radii of convergence. (English summary) **97j:41013**
Wallin, Hans *see* **Sil′vestrov, S. D., 97a:47052**
Wyshinski, Nancy J. *see* **Craviotto, Cathleen M.; et al., 97g:65050**

30B99 None of the above, but in this section

Tamanoi, Hirotaka Higher Schwarzian operators and combinatorics of the Schwarzian derivative. **97h:30001**

30Cxx Geometric function theory

30C10 Polynomials

Aziz, Abdul[1] (*with* Zargar, B. A.) Some inequalities for self-reciprocal polynomials. (English summary) **97d:30004**
Frappier, Clément (*with* Qazi, Mohammed A.) Asymptotic inequalities for polynomials with restricted coefficients. (English summary) **97g:30004**
— (*with* Qazi, Mohammed A.) Asymptotic inequalities related to the maximum modulus of a polynomial. (English summary) **97g:30005**
Gregor, Jiří On the design of positive real functions. (English summary) **97f:30001**
Khachatryan, I. O. On the completeness of polynomials in a weighted space of entire functions. (Russian. English and Russian summaries) **97m:30002**
Melek, Soad Zaky On basic sets of polynomials of two complex variables. (English and Arabic summaries) **97c:30004**
Mohammad Shah, Wali A generalization of a theorem of Paul Turan. **97e:30007**
Ostrovskiĭ, I. V. (*with* Pakovitch, F. B.; Zaidenberg, Mikhail) A remark on complex polynomials of least deviation. **97i:30007**
Pakovitch, F. B. Sur un problème d'unicité pour les fonctions méromorphes. (English and French summaries) [On the uniqueness problem for meromorphic functions] **97i:30006**
— *see also* **Ostrovskiĭ, I. V.; et al., 97i:30007**
Qazi, Mohammed A. *see* **Frappier, Clément, 97g:30004** *and* **97g:30005**
Sendov, Blagovest On the critical points of a polynomial. **97k:30007**
Walker, Peter L. Upper bounds for the separation of real zeros of polynomials. (English summary) **97k:30008**
Zaidenberg, Mikhail *see* **Ostrovskiĭ, I. V.; et al., 97i:30007**
Zargar, B. A. *see* **Aziz, Abdul[1], 97d:30004**

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Çavuş, Abdullah Approximation by generalized Faber series in Bergman spaces on finite regions with a quasiconformal boundary. (English summary) **97e:41007**
Erkama, Timo Polymorphisms and linearization of nonlinear polynomials. (English summary) **97j:30008**
Govil, N. K. (*with* Vetterlein, David H.) Inequalities for a class of polynomials sastisfying $p(z) \equiv z^n p(1/z)$. (English summary) **97i:30002**
Kirjackis, Edward G. Behavior of a homogeneous symmetric polynomial in an angular domain. (Russian. Lithuanian summary) **97f:30004**
Liu, Zhi Guo q-differential operators and q-Hermite polynomials. (Chinese. English and Chinese summaries) **97f:39025**
Pakovich, F. B. Elliptic polynomials. (Russian) **97b:11057**
Sakovich, N. V. The Hausdorff dimension and the distribution of values of integral polynomials over **C**. (Russian. English and Russian summaries) **97c:11080**
Thapa, Gajendra B. John constants for polynomials. (English summary) **97k:30012**
Tseng, Ching-Yih A multiple-exchange algorithm for complex Chebyshev approximation by polynomials on the unit circle. (English summary) **97f:30054**
Vetterlein, David H. *see* **Govil, N. K., 97i:30002**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Ahmad, Nisar *see* **Aziz, Abdul[1], 97c:30005**
Aziz, Abdul[1] (*with* Zargar, B. A.) Some extensions of Enestrom-Kakeya theorem. (English summary) **97e:30008**
— (*with* Ahmad, Nisar) A compact generalization of Walsh's two-circle theorems for polynomials and rational functions. (English summary) **97c:30005**
— (*with* Zargar, B. A.) On the zeros of polynomials. (English summary) **97e:30009**
Bistritz, Yuval A modified unit-circle zero location test. (English summary) **97a:30003**
Borcea, Iulius The Sendov conjecture for polynomials with at most seven distinct zeros. (English summary) **97g:30006**
— On the Sendov conjecture for polynomials with at most six distinct roots. (English summary) **97c:30007**
Borwein, Peter (*with* Erdélyi, Tamás) Questions about polynomials with $\{0, -1, +1\}$ coefficients: Research Problems 96-3. **97d:30005**
Byrne, Angelina Some results for the Sendov conjecture. (English summary) **97c:30006**
Duren, Peter (*with* Hengartner, Walter; Laugesen, Richard S.) The argument principle for harmonic functions. **97f:30002**
Erdélyi, Tamás *see* **Borwein, Peter, 97d:30005**
Gardner, Robert Bentley (*with* Govil, N. K.) Some generalizations of the Enestrom-Kakeya theorem. **97k:30009**
Garloff, Jürgen (*with* Wagner, David G.) Hadamard products of stable polynomials are stable. (English summary) **97e:30010**
Genin, Yves V. On polynomials nonnegative on the unit circle and related questions. (English summary) **97f:30003**
Govil, N. K. *see* **Gardner, Robert Bentley, 97k:30009**
Hengartner, Walter *see* **Duren, Peter; et al., 97f:30002**
Hsieh, Jer-Guang *see* **Sun, Yeong-Jeu, 97a:30004**
Jain, Vinay Kumar A generalization of Eneström-Kakeya theorem. (English summary) **97c:30008**
Kajiwara, Joji Real zeros of holomorphic functions with parameters. (English summary) (*see* **97m:65011**)
— (*with* Tsuji, Miki) Surfaces associated to real zeros of holomorphic functions with parameters. (English summary) (*see* **97m:65012**)
Kanno, Sachio (*with* Kyurkchiev, Nikolaĭ V.; Yamamoto, Tetsuro) On some methods for the simultaneous determination of polynomial zeros. (English summary) **97k:30010**
Katsoprinakis, Emmanuel S. Erratum to: "On the Sendov-Ilyeff conjecture" [Bull. London Math. Soc. **24** (1992), no. 5, 449–455; MR 93f:30005]. **97k:30011**
Kirjackis, Edward G. Behavior of a homogeneous symmetric polynomial in an angular domain. (Russian. Lithuanian summary) **97f:30004**
Kosheleva, T. M. *see* **Tovmasyan, N. E., 97a:30005**
Kyurkchiev, Nikolaĭ V. *see* **Kanno, Sachio; et al., 97k:30010**
Laugesen, Richard S. *see* **Duren, Peter; et al., 97f:30002**
Luecking, Daniel H. Zero sequences for Bergman spaces. (English summary) **97g:30007**
Stadtmüller, Karin On the zero distribution of the Riesz transforms of power series. (Russian summary) **97b:30003**
Storozhenko, È. A. On a problem of Mahler on the zeros of a polynomial and its derivative. (Russian. Russian summary) **97h:30002**
Sun, Yeong-Jeu (*with* Hsieh, Jer-Guang) A note on the circular bound of polynomial zeros. (English summary) **97a:30004**
Taşcı, Dursun The upper bounds for the zeros of a polynomial with real or complex coefficients. (English summary) **97e:30011**
Todorov, Pavel G. New analytic solution of the trinomial algebraic equation $z^n + pz + q = 0$ by means of the Goursat hypergeometric function. I. (English summary) **97e:30012**
— New analytic solution of the trinomial algebraic equation $z^n + pz + q = 0$ by means of the Goursat hypergeometric function. II. (English summary) **97e:30013**
Tovmasyan, N. E. (*with* Kosheleva, T. M.) On a method for finding the zeros of analytic functions and its application for the solution of boundary value problems. (Russian. Russian summary) **97a:30005**
Tsuji, Miki *see* **Kajiwara, Joji, (97m:65012)**
Vaggione, Diego On the fundamental theorem of algebra. **97m:30003**
Wagner, David G. *see* **Garloff, Jürgen, 97e:30010**
Walker, Peter L. Separation of zeros of translates of polynomials and entire functions. (English summary) **97m:30004**
Yamamoto, Tetsuro *see* **Kanno, Sachio; et al., 97k:30010**
Zargar, B. A. *see* **Aziz, Abdul[1], 97e:30008** *and* **97e:30009**
Zhou, Wei Chu (*with* Zhou, Yong[2]) A criterion for the nonexistence of real roots for a class of transcendental equations. (Chinese. English and Chinese summaries)
Zhou, Yong[2] *see* **Zhou, Wei Chu**

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Andrievskiĭ, Vladimir (*with* Blatt, Hans-Peter) Erdös-Turán-type theorems on piecewise smooth curves and arcs. (English summary) **97j:41002**

Benuzamy, Bernard Reconstructing a signal from the knowledge of the norms of its multiples. (English summary) **97e:94002**
Blatt, Hans-Peter *see* **Andrievskii, Vladimir, 97j:41002**
Borwein, Peter (*with* Erdélyi, Tamás) ★ Polynomials and polynomial inequalities. **97e:41001**
Bshouty, Daoud (*with* Hengartner, Walter; Suez, Tiferet) The exact bound on the number of zeros of harmonic polynomials. (English summary) **97f:30025**
Erdélyi, Tamás *see* **Borwein, Peter, 97e:41001**
Gabutti, Bruno (*with* Pittaluga, Giovanna; Sacripante, Laura) Asymptotics for Meixner polynomials. (English summary) **97b:33010**
Gehlen, Wolfgang Note on the sharpness of Jentzsch's theorem. (English summary) **97b:30001**
Hengartner, Walter *see* **Bshouty, Daoud; et al., 97f:30025**
Khovanskiĭ, A. G. (*with* Yakovenko, S. Yu.) Generalized Rolle theorem in $\mathbf{R}^n$ and C. (English summary) **97f:26016**
Natalini, P. Computing the moments of the density of the zeros of classical and semiclassical orthogonal polynomials. (Italian. English summary) **97k:42051**
Norfolk, Timothy S. Zero-free regions for sequences of Maclaurin polynomials. (English summary) **97e:30003**
Petković, Miodrag S. (*with* Tričković, S. B.) Tchebychef-like method for the simultaneous finding zeros of analytic functions. (English summary) **97a:65051**
— *see also* **Sakurai, Tetsuya, 97g:65113**
Pittaluga, Giovanna *see* **Gabutti, Bruno; et al., 97b:33010**
Pritsker, I. E. Ray sequences of Laurent-type rational functions. (English summary) **97j:30018**
— (*with* Varga, Richard S.) The Szegő curve, zero distribution and weighted approximation. (English summary) **97m:30054**
Roitman, Michael (*with* Yakovenko, S. Yu.) On the number of zeros of analytic functions in a neighborhood of a Fuchsian singular point with real spectrum. (English summary) **97d:34004**
Sacripante, Laura *see* **Gabutti, Bruno; et al., 97b:33010**
Sakurai, Tetsuya (*with* Petković, Miodrag S.) On some simultaneous methods based on Weierstrass' correction. (English summary) **97g:65113**
Sedletskiĭ, A. M. On zeros of Laplace transform of finite measure. (English summary) **97m:44002**
Sendov, Blagovest On the critical points of a polynomial. **97k:30007**
Shibata, Keiichi On the analytic function with assigned singularity. (English summary) **97i:30003**
Spain, P. G. Tracking poles, representing Hankel operators, and the Nehari problem. (English summary) **97c:47027**
Suez, Tiferet *see* **Bshouty, Daoud; et al., 97f:30025**
Takeuchi, Mamoru A zero estimate for exponential polynomials. **97f:11057**
Thapa, Gajendra B. John constants for polynomials. (English summary) **97k:30012**
Tričković, S. B. *see* **Petković, Miodrag S., 97a:65051**
Varga, Richard S. *see* **Pritsker, I. E., 97m:30054**
Wagner, David G. Multipartition series. (English summary) **97f:05010**
Walker, Peter L. Upper bounds for the separation of real zeros of polynomials. (English summary) **97k:30008**
Yakovenko, S. Yu. *see* **Roitman, Michael, 97d:34004** *and* **Khovanskiĭ, A. G., 97f:26016**

30C20 Conformal mappings of special domains

Chuaqui, M. (*with* Osgood, B.; Pommerenke, Ch.) John domains, quasidisks, and the Nehari class. **97b:30004**
Grinshpan, A. Z. (*with* Saff, Edward B.) Estimating the argument of some analytic functions. (English summary) **97f:30005**
Koepf, Wolfram Schwarz-Christoffel mappings: symbolic computation of mapping functions for symmetric polygonal domains. (English summary) **97h:30003**
Korotyaev, E. L. Metric properties of conformal mappings on the complex plane with parallel slits. **97e:30014**
Lanza de Cristoforis, M. Conformal representation and domain dependence. (*see* 97g:00017)
Lu, Jian Ke Standardization of periodic simply connected regions. (Chinese. English and Chinese summaries) **97a:30006**
Osgood, B. *see* **Chuaqui, M.; et al., 97b:30004**
Pommerenke, Ch. *see* **Chuaqui, M.; et al., 97b:30004**
Saff, Edward B. *see* **Grinshpan, A. Z., 97f:30005**
Sawaguri, Toshio On the approximate polynomial of an analytic function mapping the interior of unit circle into ellipse. (Japanese. English summary)
Sorokin, A. S. Keldysh-Sedov formulas and the differentiability with respect to a parameter of families of univalent functions in finitely connected domains. (Russian. Russian summary) **97a:30007**

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Aksent'ev, L. A. Classification and application of automorphic domains. (Russian) **97e:30032**
Bakhtin, A. K. Multiply connected domains and functions without common values. (Russian) **97c:30031**
Dorfmann, Alexander Diffraktion von Wasserwellen am horizontalen Zylinder. (English and German summaries) [Diffraction of water waves around a horizontal cylinder] **97e:76010**
Karageorghis, Andréas (*with* Stylianopoulos, N. S.; Zachariades, H. A.) A numerical conformal mapping method for harmonic mixed boundary value problems. (English summary) **97g:65063**
Masumoto, Makoto Conformal mappings of a once-holed torus. **97a:30057**
Odgaard, A. Jacob *see* **Sinha, Sanjiv K., 97h:76009**
Poggi-Corradini, Pietro Hardy spaces and twisted sectors for geometric models. (English summary) **97e:30063**
Ryan, John Some applications of conformal covariance in Clifford analysis. (English summary) **97d:30065**
Simonenko, I. B. *see* **Zherdenovskaya, I. D., 97c:30009**
Sinha, Sanjiv K. (*with* Odgaard, A. Jacob) Applications of conformal mapping to diverging open channel flows. (English summary) **97h:76009**
Stylianopoulos, N. S. *see* **Karageorghis, Andréas; et al., 97g:65063**
Timokhovich, O. V. Explicit solution of the problem of the modulus of a holomorphic function for a circular annulus. (Russian. English and Russian summaries) **97m:30058**
Wang, Run Fu A method of conformal mapping. (Chinese. Chinese summary) **97c:30011**
Zachariades, H. A. *see* **Karageorghis, Andréas; et al., 97g:65063**
Zherdenovskaya, I. D. (*with* Simonenko, I. B.) On a direct method for computing conformal mappings of polygons. (Russian) **97c:30009**

30C25 Covering theorems in conformal mapping theory

Chen, Huai Hui (*with* Gauthier, Paul M.) On Bloch's constant. (English summary) **97j:30002**
Gauthier, Paul M. *see* **Chen, Huai Hui, 97j:30002**
Graham, Ian (*with* Varolin, Dror) Bloch constants in one and several variables. (English summary) **97f:30006**
Rupp, Rudolf A note on covering theorems for composite classes of analytic functions. (English summary) **97b:30005**
Varolin, Dror *see* **Graham, Ian, 97f:30006**

Items with secondary classifications in 30C25

Aouf, M. K. (*with* Shamandy, A.; Yassen, M. F.) On certain subclass of univalent functions in the unit disc. I. (English summary) **97b:30011**
Bakhtin, A. K. Multiply connected domains and functions without common values. (Russian) **97c:30031**
— *see also* **Bakhtina, G. P., 97d:30028**
Bakhtina, G. P. (*with* Bakhtin, A. K.) On the product of powers of conformal radii of symmetric nonoverlapping domains. (Russian) **97d:30028**
Shamandy, A. *see* **Aouf, M. K.; et al., 97b:30011**
Yassen, M. F. *see* **Aouf, M. K.; et al., 97b:30011**

30C30 Numerical methods in conformal mapping theory [see also 65E05]

Gaier, Dieter Conformal modules and their computation. (English summary) **97h:30004**
Inoue, Tetsuo Algorithm for computing an inverse function of a conformal mapping by fundamental solution method. (English summary) **97m:30005**
Mathéus, Frédéric Empilements de cercles et représentations conformes: une nouvelle preuve du théorème de Rodin-Sullivan. [Circle packings and conformal representations: a new proof of the Rodin-Sullivan theorem] **97i:30008**
Papamichael, N. (*with* Stylianopoulos, N. S.) Domain decomposition for conformal maps. (English summary) **97h:30005**
Simonenko, I. B. *see* **Zherdenovskaya, I. D., 97c:30009**
Stylianopoulos, N. S. *see* **Papamichael, N., 97h:30005**
Volkov, E. A. ★ Block method for solving the Laplace equation and for constructing conformal mappings. **97h:30006**
Wegmann, Rudolf Fast conformal mapping of an ellipse to a simply connected region. (English summary) **97d:30006**
Zherdenovskaya, I. D. (*with* Simonenko, I. B.) On a direct method for computing conformal mappings of polygons. (Russian) **97c:30009**

Items with secondary classifications in 30C30

Bell, Steven R. Recipes for classical kernel functions associated to a multiply connected domain in the plane. (English summary) **97i:30010**
Elcrat, Alan R. (*with* Hu, Chenglie; Miller, Kenneth G.) Equilibrium configurations of point vortices for channel flows past interior obstacles. (English summary) **97m:76019**
Hu, Chenglie *see* **Elcrat, Alan R.; et al., 97m:76019**
Ivanov, Valentin Ivanovich (*with* Trubetskov, M. K.) ★ Handbook of conformal mapping with computer-aided visualization. **97j:65048**
Miller, Kenneth G. *see* **Elcrat, Alan R.; et al., 97m:76019**
Noor, Khalida Inayat On some multivalent integral operators. (English summary) **97a:30016**
Thomas, Anthony D. Conformal mapping of nonsmooth domains via the Kerzman-Stein integral equation. (English summary) **97h:46038**
Trubetskov, M. K. *see* **Ivanov, Valentin Ivanovich, 97j:65048**

30C35 General theory of conformal mappings

Aksent'ev, L. A. (*with* Kazantsev, A. V.; Popov, Nikolaĭ Ivanovich) Extremal problems for areas under conformal mapping and their application. (Russian) **97e:30015**
Avkhadiev, F. G. Conformal mappings that satisfy the boundary condition of the equality of metrics. (Russian) **97d:30007**
Gutlyanskiĭ, V. Ya. On conformal and quasiconformal mappings. **97b:30006**
Haruki, Hiroshi (*with* Rassias, Themistocles M.) A new characteristic of Möbius transformations by use of Apollonius points of triangles. (English summary) **97b:30007**
He, Zheng-Xu (*with* Schramm, Oded) On the convergence of circle packings to the Riemann map. (English summary) **97i:30009**
Huang, Xin Zhong On Gehring-Pommerenke's estimate for quasicircles. **97a:30008**
Huber, Alfred Eine Lösungsformel für reguläre konforme Verheftungen. [A solution formula for regular conformal gluings] **97e:30016**
Jun, Sook Heui Planar harmonic mappings and curvature estimates. **97a:30009**
Kazantsev, A. V. *see* **Aksent'ev, L. A.; et al., 97e:30015**
Lauf, W. Examples of non-locally compact spaces $\Sigma(G)$. (English summary) **97h:30007**
Nag, Subhashis Singular Cauchy integrals and conformal welding on Jordan curves. (English summary) **97e:30010**
Popov, Nikolaĭ Ivanovich *see* **Aksent'ev, L. A.; et al., 97e:30015**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 97b:30007**
Schramm, Oded *see* **He, Zheng-Xu, 97i:30009**

Thapa, Gajendra B. John constants for polynomials. (English summary) **97k:30012**
Wang, Run Fu A method of conformal mapping. (Chinese. Chinese summary) **97c:30011**
Wang, Shi Qiang A note on conformal mappings. (Chinese. English and Chinese summaries) **97g:30008**

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Balasubramanian, Ramachandran (*with* Ponnusamy, S.) An alternate proof of Hall's theorem on a conformal mapping inequality. **97c:30016**
Bandle, C. (*with* Flucher, M.) Harmonic radius and concentration of energy; hyperbolic radius and Liouville's equations $\Delta U = e^U$ and $\Delta U = U^{(n+2)/(n-2)}$. (English summary) **97b:35046**
Belyi, V. I. (*with* Kravchuk, E. V.) Metrical properties of the conformal mapping and some explicit relations for the harmonic measure. **97a:30032**
Flucher, M. *see* **Bandle, C., 97b:35046**
Gehlen, Wolfgang Overconvergent power series and conformal maps. (English summary) **97a:30001**
Gustafsson, Björn A distortion theorem for quadrature domains for harmonic functions. (English summary) **97f:31001**
Hamilton, D. H. Correction to the paper: "Simultaneous uniformisation" [J. Reine Angew. Math. **455** (1994), 105–122; MR 95k:30091]. **97e:30072**
Huang, Xin Zhong (*with* Owa, Shigeyoshi) On the problems of conformal maps with quasiconformal extension. **97k:30020**
Kravchuk, E. V. *see* **Belyi, V. I., 97a:30032**
Kufarev, B. P. On the length and area principle for planar mappings with bounded distortion. (Russian) **97f:26017**
Owa, Shigeyoshi *see* **Huang, Xin Zhong, 97k:30020**
Ponnusamy, S. *see* **Balasubramanian, Ramachandran, 97c:30016**
Sorokin, A. S. Keldysh-Sedov formulas and the differentiability with respect to a parameter of families of univalent functions in finitely connected domains. (Russian. Russian summary) **97a:30007**
Suklasyan, G. A. On inverse images of concentric circles for univalent mappings. (Russian. Russian summary) **97m:30020**

30C40 Kernel functions and applications

Bell, Steven R. Complexity of the classical kernel functions of potential theory. (English summary) **97g:30009**
— Recipes for classical kernel functions associated to a multiply connected domain in the plane. (English summary) **97i:30010**
Chung, Young-Bok An expression of the Bergman kernel function in terms of the Szegö kernel. (English summary) **97a:30010**
Jeong, Moonja The relation between the Bergman kernel and the Szegö kernel. **97e:30017**
McCarthy, John E. (*with* Yang, Li Ming) Growth of the Bergman kernel on planar regions. **97b:30008**
Saitoh, Saburou Fundamental theorems in linear transforms. (English summary) **97b:30009**
Yang, Li Ming *see* **McCarthy, John E., 97b:30008**

Items with secondary classifications in 30C40

Ball, Joseph A. (*with* Clancey, Kevin F.) Reproducing kernels for Hardy spaces on multiply connected domains. (English summary) **97f:46042**
Clancey, Kevin F. *see* **Ball, Joseph A., 97f:46042**
Dubinin, V. N. Symmetrization, the Green function and conformal mappings. (Russian. Russian summary) **97m:30025**
Jian, Ren Yi Reproducing kernel spaces with nondegenerate semianalytic kernels and their coanalytic multipliers. (Chinese. Chinese summary) **97i:46049**
Ryan, John Some applications of conformal covariance in Clifford analysis. (English summary) **97d:30065**
Wu, Zhijian A class of bilinear forms on Dirichlet type spaces. (English summary) **97h:46039**

30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)

Abdulhadi, Zayid (*with* Hengartner, Walter) One pointed univalent logharmonic mappings. (English summary) **97i:30011**
Acharya, Milu *see* **Patel, Jagannath, 97c:30024** *and* **97f:30021**
Al-Amiri, Hassoon (*with* Mocanu, Petru T.) On certain subclasses of meromorphic close-to-convex functions. **97f:30007**
— (*with* Coman, Dan; Mocanu, Petru T.) Starlike and close-to-convex functions with respect to symmetric-conjugate points. (English summary) **97e:30012**
— *see also* **Mocanu, Petru T.; et al., 97f:30017**
Ali, Rosihan M. (*with* Singh, Vikramaditya[1]) Coefficients of parabolic starlike functions of order ρ. (English summary) **97h:30008**
— (*with* Singh, Vikramaditya[1]) On the fourth and fifth coefficients of strongly starlike functions. (English summary) **97c:30013**
Al-Oboudi, Fatima M. Close-to-convex functions of complex order related to Ruscheweyh derivative. (English summary) **97g:30010**
— Bounded functions starlike with respect to symmetrical points. (English summary) **97b:30010**
Altintas, Osman (*with* Owa, Shigeyoshi) Neighborhoods of certain analytic functions with negative coefficients. (English summary)
An, Jong Su (*with* Song, Tai Sung) A unified treatment of some special properties of convex conformal functions.
Aouf, M. K. (*with* Sălăgean, G. S.) Certain subclasses of prestarlike functions with negative coefficients. (English and Romanian summaries) **97h:30009**
— (*with* Ch'ên, Ming Po) On certain classes of multivalent functions defined by the Ruscheweyh derivative. (English summary) **97j:30003**
— (*with* Darwish, H. E.) Meromorphically starlike functions with positive and fixed many coefficients. **97h:30010**
— A new criterion for meromorphic p-valent starlike functions. **97j:30004**
— (*with* Shamandy, A.; Yassen, M. F.) Quasi-Hadamard product of p-valent functions. (English summary) **97e:30018**
— (*with* Hossen, H. M.) A class of meromorphic univalent functions with positive and fixed finitely many coefficients. (English summary) **97f:30008**
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Bakhtin, A. K. On the product of inner radii of symmetric nonoverlapping domains. (Russian) **97c:30014**
— *see also* **Bakhtina, G. P., 97c:30015**
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Vasil'ev, A. Yu. (*with* Kamyshova, G. N.) Moduli of strip-shaped domains in the solution of an isoperimetric problem of conformal mapping. (Russian. Russian summary) **97d:30030**
Wu, Ze Min *see* **Lai, Wan Cai, 97b:30027**

30C75 Extremal problems for conformal and quasiconformal mappings, other methods

Cheng, Jin Fa (*with* Chu, Yu Ming) Extremal quasiconformal mappings for parabolic regions. (Chinese. English and Chinese summaries) **97b:30033**
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Dubinin, V. N. Symmetrization, the Green function and conformal mappings. (Russian. Russian summary) **97m:30025**

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— *see also* **Bakhtina, G. P., 97c:30015**
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30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination

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Dubinin, V. N. Symmetrization, the Green function and conformal mappings. (Russian. Russian summary) **97m:30025**
Élderman, V. Yu. Metric characteristics of exceptional sets that arise in estimates for subharmonic functions. (Russian. Russian summary) **97c:31007**
Kaufman, Robert (*with* Wu, Jang-Mei) Two problems on doubling measures. **97k:28006**
Kraetzer, P. Experimental bounds for the universal integral means spectrum of conformal maps. (English summary) **97m:30018**
Levin, A. L. (*with* Saff, Edward B.) Erratum: "Optimal ray sequences of rational functions connected with the Zolotarev problem" [Constr. Approx. **10** (1994), no. 2, 235–273; MR 95j:41017]. **97h:30039**
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— On the analytic capacity and curvature of some Cantor sets with non-σ-finite length. (English summary) **97d:30052**
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30C99 None of the above, but in this section

Kortram, Ronald A. Support points of K'. (English summary) **97e:30043**
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Smith, Wayne Stewart (*with* Stanoyevitch, Alexander; Stegenga, David A.) Planar Poincaré domains: geometry and Steiner symmetrization. (English summary) **97d:30032**
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30Dxx Entire and meromorphic functions, and related topics

30D05 Functional equations in the complex domain, iteration and composition of analytic functions [see also 34A20, 39–XX, 58F08, 58F23]

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— (*with* Stallard, Gwyneth M.) Error estimates in a calculation of Ruelle. (English summary) **97b:30037**
Balogh, Zoltan (*with* Vol'berg, A. L.) Geometric localization, uniformly John property and separated semihyperbolic dynamics. **97i:30033**
Beardon, Alan F. Iteration of analytic Euclidean contractions. (English summary) **97h:30039**
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Bourdon, Paul S. (*with* Shapiro, Joel H.) Mean growth of Koenigs eigenfunctions. **97h:30040**
Böger, Matthias On the Julia set of the composition of meromorphic functions. (English summary) **97i:30035**
Christensen, J. P. R. (*with* Fischer, Pal) Ergodic invariant probability measures and entire functions. **97h:30041**
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— Absolutely continuous conjugacies of Blaschke products. **97g:30020**
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— (*with* Martin, Gaven J.) Attractors in quasiregular semigroups. (English summary) **97m:30028**
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Katz, Leon Note on the Schwarzian derivative. (English summary) **97d:30033**
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Kim, Hong Oh (*with* Kim, Hoi Sub) Dynamics of two parameter family of point-mass singular inner functions. **97e:30035**
Lee, Hung Hwan (*with* Baek, Hun Ki) A note on the Hausdorff dimension of some Julia sets. **97k:30031**
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— Julia sets and non-constant limits in the composition of entire functions. (English summary) **97d:30034**
— *see also* **Baker, I. N., 97k:30030**
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— *see also* **Gong, Zhi-Min; et al., 97f:30033**
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Bock, Heinrich On the dynamics of entire functions on the Julia set. (English summary) **97f:58107**
Bohman, J. (*with* Fröberg, Carl-Erik) Heuristic investigation of chaotic mapping producing fractal objects. (English summary) **97k:28016**
Bourdon, Paul S. (*with* Shapiro, Joel H.) Cyclic phenomena for composition operators. (English summary) **97h:47023**
Böger, Matthias On the set of limit functions in wandering domains. (English summary) **97c:58130**
— A generalization of the iteration theory of entire and meromorphic functions.
Dumas, Philippe (*with* Flajolet, Philippe) Asymptotique des récurrences mahlériennes: le cas cyclotomique. (English and French summaries) [Asymptotics of Mahler recurrences: the cyclotomic case] **97f:39029**
Epstein, Adam (*with* Keen, Linda; Tresser, Charles) The set of maps $F_{a,b}: x \mapsto x + a + (b/2\pi)\sin(2\pi x)$ with any given rotation interval is contractible. (English summary) **97e:58129**
Eremenko, Alexandre (*with* Rubel, Lee A.) The arithmetic of entire functions under composition. **97m:32038**
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Gai, Yun Ying Iteration of the hyperbolic sine family with positive real parameters. (Chinese. English and Chinese summaries) **97b:58119**
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Heidrich, R. (*with* Jank, G.) On the iteration of quaternionic Moebius transformations. (English summary) **97e:30079**
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— (*with* Schleicher, Dierk) Erratum: "Symmetries of fractals revisited". **97f:58109b**
Levin, Genadi M. (*with* Przytycki, Feliks) External rays to periodic points. (English summary) **97d:58164**
— (*with* Przytycki, Feliks) When do two rational functions have the same Julia set? (English summary) **97i:58149**
Lyubich, M. Yu. (*with* Vol'berg, A. L.) A comparison of harmonic and balanced measures on Cantor repellors. (English summary) **97a:58156**
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Nishizawa, Kiyoko (*with* Fujimura, Masayo) The affine algebraic curve of Newton maps in Przytycki's cubic rational maps. **97k:58140**
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— *see also* **Levin, Genadi M., 97d:58164** *and* **97i:58149**
Puttaswamy, T. K. Connection coefficients for a certain third order differential equation in the neighbourhood of an irregular singular point. (English summary) **97g:34011**
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Saitoh, Noriko (*with* Saito, Satoru; Shimizu, Akinobu; Yoshida, K.) An analysis of a family of rational maps containing integrable and non-integrable difference analogue of the logistic equation. (English summary) **97k:39018**
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Shishikura, Mitsuhiro Topological, geometric and complex analytic properties of Julia sets. **97e:58200**
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Stallard, Gwyneth M. The Hausdorff dimension of Julia sets of entire functions. II. (English summary) **97a:58157**
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Tan, Lei (*with* Yin, Yongcheng) Local connectivity of the Julia set for geometrically finite rational maps. (English summary) **97g:58142**
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30D10 Representations of entire functions by series and integrals

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Mainardi, Francesco (*with* Gorenflo, Rudolf) The Mittag-Leffler function in the Riemann-Liouville fractional calculus. (English summary) (*see* **97g:00017**)
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Dovgoshei, A. A. On uniform polynomial approximation of entire functions on arbitrary compacta of the complex plane. (Russian. Russian summary) **97a:30049**

Dzhrbashyan, M. M. Weighted integral representations of analytic and smooth functions in the unit disk and in the complex plane. (Russian. English and Russian summaries) **97f:30055**

Jelinek, Jiří A note on regularly asymptotic points. (English summary) **97e:30066**

Khachatryan, I. O. On the completeness of polynomials in a weighted space of entire functions. (Russian. English and Russian summaries) **97m:30002**

Liu, Jian Ming (*with* Zheng, Wei Xing) Complex-weighted Plancherel formula and Jacobi transform. **97g:44011**

Sedletskiĭ, A. M. Theorems of Paley-Wiener-Pitt's type for Fourier transforms of rapidly decreasing functions. (English summary) **97i:42007**

Vijai, Vinita On the mean values of an entire function in several complex variables represented by multiple Dirichlet series. **97m:32002**

Wood, Bruce On summability methods based on power series. (English summary) **97f:40003**

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30D15 Special classes of entire functions and growth estimates

Abi-Khuzam, Faruk F. Zero-free regions for entire functions and sections of their power series. **97a:30033**

Alzer, Horst Note on an inequality for regular functions. (English summary) **97c:30036**

Al'zugaraĭ, M. T. The growth of generating functions, analytic in the unit circle, for Pólya frequency sequences. (Russian. English summary) **97i:30040**

Avetisyan, Ruben Abelevich Bernstein-type inequalities for derivatives of meromorphic functions, and approximation by meromorphic functions on the real axis. (Russian. English and Russian summaries) **97f:30036**

Bernal-González, Luis A lot of "counterexamples" to Liouville's theorem. (English summary) **97d:30036**

Daniluk, Andrzej On the asymptotic behaviour of the logarithmic derivative of the entire function. **97h:30042**

Davis, C. C. (*with* Fenton, P. C.) The real part of entire functions. **97j:30009**

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Sauer, Andreas A note on the zero-sequences of solutions of $f'' + Af = 0$. (English summary) **97f:34004**
Schwick, Wilhelm Repelling periodic points in the Julia set. (English summary) **97m:30029**
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Steinbart, Enid M. Subnormal solutions of homogeneous linear differential equations with periodic coefficients. (English summary) **97c:34012**
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Walker, Peter L. Separation of zeros of translates of polynomials and entire functions. (English summary) **97m:30004**
Wang, An Bin (*with* Zhan, Xiao Ping[2]) Extensions of some results on fixed points of meromorphic functions and on meromorphic solutions of differential equations. (Chinese. English and Chinese summaries) **97e:30052**
Wu, Sheng Jian Some results on entire functions of finite lower order. (English summary) **97e:30048**
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30D40 Cluster sets, prime ends, boundary behavior

Barth, Karl F. (*with* Rippon, P. J.) Minimal fine limits of subharmonic functions of slow growth. (English summary) **97a:30044**
Hwang, Jun Shung On level sets of analytic functions and growth control approximation. (English summary) **97b:30047**
Matsushima, Toshio Image of a radius by a holomorphic function and map on the unit disk of C. **97f:30047**
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Samokhin, M. V. On the existence of analytic functions with a given modulus of boundary values. (Russian. Russian summary) **97i:30047**
Tamrazov, P. M. Differential contour-solid properties of analytic functions. (English summary) **97d:30043**
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Qiu, Shu Xi Asymptotic points of meromorphic functions on a maximal noncompact Riemann surface. **97e:30073**

30D45 Bloch functions, normal functions, normal families

Abu-Muhanna, Y. Bloch, BMO and harmonic univalent functions. (English summary) **97m:30045**
Aulaskari, Rauno (*with* He, Yuzan; Zhao, Ru Han) On entire functions, Bloch and normal functions. (English summary) **97d:30044**
Avkhadiev, F. G. (*with* Kayumov, I. R.) Estimates for Bloch functions and their generalization. (English summary) **97d:30045**
Chen, Huai Hui (*with* Lappan, Peter) An integral bound for the spherical derivative. II. (English summary) **97h:30049**
— (*with* Lappan, Peter) Normal families, orders of zeros, and omitted values. (English summary) **97c:30040**
Girela, Daniel On a theorem of Privalov and normal functions. (English summary) **97d:30046**
Godula, Janusz (*with* Starkov, V. V.) Applications of the idea of Möbius invariance to obtain equivalent definitions of Bloch function. (English summary) **97f:30048**
Han, Yun Rui *see* **Zheng, Jian Hua**, **97f:30049**
He, Yuzan *see* **Aulaskari, Rauno; et al.**, **97d:30044**
Hua, Xin-Hou (*with* Sun, Jianwu) Normal families of logarithmic derivatives. (English and Chinese summaries) **97m:30046**
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Kim, Jeong-Heon Finitely normal families of integer translations. (English summary) **97k:30043**
— (*with* Rubel, Lee A.) Integer translation of meromorphic functions. (English summary) **97h:30050**
Labudović, Novo (*with* Pavićević, Ž.) An integral criterion for normal meromorphic and Bloch functions. (English summary) **97e:30041**
— Weak and strong analytic normalities. (Russian. English summary) **97i:30049**
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Lin, Xing Duan (*with* Yang, Yu Zhen) Partial derivatives of schlicht harmonic mappings. (Chinese. English and Chinese summaries) **97k:30044**
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Zhang, Shun Yan (*with* Wang, Wei[4]) Extremal problems of Bloch function spaces. (English summary) **97i:30051**
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— *see also* **Aulaskari, Rauno; et al., 97d:30044**
Zheng, Jian Hua (*with* Han, Yun Rui) Normal families of holomorphic functions and their compositions. (Chinese. English and Chinese summaries) **97f:30049**

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— (*with* Stegenga, David A.; Xiao, Jie[1]) Some subclasses of BMOA and their characterization in terms of Carleson measures. (English summary) **97k:30045**
Bonk, Mario (*with* Minda, David; Yanagihara, Hiroshi[3]) The hyperbolic metric on Bloch regions. (English summary) **97h:30063**
Chen, Huai Hui (*with* Fang, Ming Liang) The value distribution of $f^n f'$. (English summary) **97a:30035**
— Yosida functions and Picard values of integral functions and their derivatives. (English summary) **97k:30035**
Choe, Boo Rim (*with* Rim, Kyung Soo) Fractional derivatives of Bloch functions, growth rate, and interpolation. **97f:32007**
— (*with* Ramey, Wade; Ullrich, David C.) Bloch-to-BMOA pullbacks on the disk. (English summary) **97m:47039**
Cohen, Joel M. (*with* Colonna, Flavia) Extreme points of the Bloch space of a homogeneous tree. (English summary) **97f:31027**
Colonna, Flavia *see* **Cohen, Joel M., 97f:31027**
Fang, Ming Liang A note on sharing values and normality. (English and Chinese summaries) **97m:30033**
— *see also* **Chen, Huai Hui, 97a:30035**
Godula, Janusz (*with* Starkov, V. V.) Erratum to: "Estimates of constants connected with linearly invariant families of functions" [Ann. Univ. Mariae Curie-Skłodowska Sect. A **48** (1994), 43–51; MR 96e:30044]. **97f:30024**
Gong, Sheng The Bloch constant of locally biholomorphic mappings on bounded symmetric domains. (English summary) **97k:32034**
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— *see also* **Aulaskari, Rauno; et al., 97g:46022**

30D50 Blashke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part

Aulaskari, Rauno (*with* Stegenga, David A.; Xiao, Jie[1]) Some subclasses of BMOA and their characterization in terms of Carleson measures. (English summary) **97k:30045**
Balogh, Zoltan (*with* Vol'berg, A. L.) Normalization of almost conformal parabolic germs. (English summary) **97h:30051**
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Bowers, Philip L. (*with* Stephenson, Kenneth) A branched Andreev-Thurston theorem for circle packings of the sphere. **97d:52027**
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Guillory, Carroll (*with* Izuchi, Keiji) Interpolating Blaschke products of type G. (English summary) **97i:46090**
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— Absolutely continuous conjugacies of Blaschke products. II. **97g:30021**
— Absolutely continuous conjugacies of Blaschke products. **97g:30020**
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Mortini, Raymond (*with* Tolokonnikov, V. A.) Blaschke products of Sundberg-Wolff type. (English summary) **97j:46054**
Nicolau, Artur *see* **Garnett, John, 97f:30050**
Pan, K. C. Convergence of orthogonal rational functions outside of the unit circle. (English summary) **97c:42046**
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Shirokov, N. A. Outer functions in O. V. Besov's analytic classes. (Russian. English and Russian summaries) **97g:30038**
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Vagin, A. N. On some classes of inner mappings of the disk. (Russian. English and Uzbek summaries) **97i:30027**
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Younis, Rahman On the invertibility of restricted Toeplitz operators. **97b:47025**
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30D55 H^p-classes

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— Generalized Hardy inequalities and pseudocontinuable functions. (English summary) **97j:30015**
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— On a composition operator and Hardy space. (English summary) **97e:30062**
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Shirokov, N. A. Inner functions in O. V. Besov's analytic classes. (Russian) **97k:30047**
Stepanyan, S. S. Representations of Goluzin-Krylov type for functions of the Dzhrbashyan $H_p(\alpha)$ and the Hardy H_p classes. (Russian. English and Russian summaries) **97g:30037**
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Akbari Estahbanati, Gholamreza On the spectral character of Toeplitz operators on planar regions. (English summary) **97i:47041**
Akeroyd, John An extension of Szegö's theorem. II. (English summary) **97h:30055**
Alpay, Daniel (*with* Bolotnikov, Vladimir; Loubaton, Ph.) On tangential H_2 interpolation with second order norm constraints. (English summary) **97d:47020**
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Appel, Matthew J. (*with* Bourdon, Paul S.; Thrall, John J.) Norms of composition operators on the Hardy space. (English summary) **97h:47022**
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Borichev, A. A. Estimates from below and cyclicity in Bergman-type spaces. **97f:46040**

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— (*with* Shapiro, Joel H.) Cyclic phenomena for composition operators. (English summary) **97h:47023**
— *see also* **Appel, Matthew J.; et al., 97h:47022**
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— (*with* Kim, Hong Oh) Compact composition operators on the Nevanlinna class. (English summary) **97c:47031**
Cima, Joseph A. (*with* Stessin, Michael) On the recovery of analytic functions. (English summary) **97g:30035**
Cowen, Carl C. (*with* MacCluer, Barbara D.) ★ Composition operators on spaces of analytic functions. **97i:47056**
Farkov, Yu. A. n-widths, Faber expansion, and computation of analytic functions. (English summary) **97d:41029**
Fisher, S. D. Widths and optimal sampling in spaces of analytic functions. (English summary) **97g:41039**
Gilbert, J. E. (*with* Hogan, J. A.; Lakey, J. D.) Frame decompositions of form-valued Hardy spaces. **97k:42044**
Girela, Daniel On a theorem of Privalov and normal functions. (English summary) **97d:30046**
Gong, Zhi-Min *see* **Wang, Jian[1], 97b:46068**
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Ohya, Fumimasa (*with* Shimizu, Irie; Watanabe, Hiroshi[1]) Coefficient multipliers of $A^{p,s,\alpha}$ spaces. (English summary) **97d:46024**
Pandeski, Nikola Some closed ideals of $H^\infty(U)$. (English summary) **97d:46061**
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Thomson, James E. (*with* Yang, Li Ming) Invariant subspaces with the codimension one property in $L^1(\mu)$. (English summary) **97c:47036**
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Vakarchuk, S. B. Exact values of widths of some function classes. (Russian. English and Ukrainian summaries) **97a:41030**
Wang, Jian[1] (*with* Gong, Zhi-Min) $\overline{\partial}$-equations and problems about ideals. (Chinese. English and Chinese summaries) **97b:46068**
Watanabe, Hiroshi[1] *see* **Ohya, Fumimasa; et al., 97d:46024**
Xing, Fu Chong Direct theorems on best approximation by rational functions in the spaces H_q^p ($p \geq 1$, $1 < q \leq 2$). (Chinese. English and Chinese summaries) **97i:41023**
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30D60 Quasi-analytic and other classes of functions

Shamoyan, F. A. Characterization of the rate of decrease of the Fourier coefficients of functions of bounded type and of a class of analytic functions with infinitely differentiable boundary values. (Russian. Russian summary) **97b:30050**

30D99 None of the above, but in this section

Gol'dberg, A. A. Uniqueness theorems for algebraic functions taking into account the number of algebraic elements. (Russian. English and Ukrainian summaries) **97a:30048**
Gross, Fred (*with* Osgood, Charles F.) A reduction of a type of functional-differential equation. (English summary) **97b:30051**
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Savel'ev, V. A. Construction of a regular set with given angular density and some applications. (Russian) **97c:30043**
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Shirokov, N. A. Outer functions in O. V. Besov's analytic classes. (Russian. English and Russian summaries) **97g:30038**
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Nakazi, Takahiko (*with* Yamada, Masahiro) (A_2)-conditions and Carleson inequalities in Bergman spaces. (English summary) **97i:46048**
Ramsay, Keith A sieve on analytic functions. (English summary) **97b:11116**
Shimorin, S. M. The Green function for the weighted biharmonic operator $\Delta(1-|z|^2)^{-\alpha}\Delta$ and the factorization of analytic functions. (Russian. English and Russian summaries) **97e:31005**
Yamada, Masahiro *see* **Nakazi, Takahiko, 97i:46048**

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

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Liu, Guo Zhong The moment problem for a class of systems of analytic functions in a strip domain. (Chinese. English and Chinese summaries) **97f:30052**
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Alpay, Daniel (*with* Bolotnikov, Vladimir; Loubaton, Ph.) On tangential H_2 interpolation with second order norm constraints. (English summary) **97d:47020**
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— (*with* Bolotnikov, Vladimir; Loubaton, Ph.) An interpolation problem with symmetry and related questions. (English summary) **97d:47019**
Ball, Joseph A. (*with* Gohberg, Israel; Kaashoek, Marinus A.) The band method and Grassmannian approach for completion and extension problems. (English summary) **97d:47021**
Beckermann, Bernhard (*with* Carstensen, Carsten) QD-type algorithms for the nonnormal Newton-Padé approximation table. (English summary) **97k:41031**
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Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonal rational functions and modified approximants. (English summary) **97a:41016**
— (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Rates of convergence of multipoint rational approximants and quadrature formulas on the unit circle. (English summary) **97m:41012**
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Cockburn, Juan C. Bitangential structured interpolation theory. (English summary) **97j:47025**
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Constantinescu, Tiberiu ★ Schur parameters, factorization and dilation problems. (English summary) **97g:47012**
Dym, Harry (*with* Gohberg, Israel) On maximum entropy interpolants and maximum determinant completions of associated Pick matrices. (English summary) **97e:47020**
— More on maximum entropy interpolants and maximum determinant completions of associated Pick matrices. (English summary) **97g:47013**
Foias, Ciprian (*with* Frazho, Arthur E.; Gohberg, Israel; Kaashoek, Marinus A.) Discrete time-variant interpolation as classical interpolation with an operator argument. (English summary) **97k:47012**
Frazho, Arthur E. *see* **Foias, Ciprian; et al., 97k:47012**
Fritzsche, Bernd (*with* Fuchs, Stefan H.; Kirstein, Bernd) On resolvent matrices for nondegenerate matricial Schur problems. (English summary) **97d:47022**
Fuchs, Stefan H. *see* **Fritzsche, Bernd; et al., 97d:47022**

Gohberg, Israel *see* **Ball, Joseph A.; et al., 97d:47021; Dym, Harry, 97e:47020** *and* **Foias, Ciprian; et al., 97k:47012**
González-Vera, Pablo *see* **Bultheel, Adhemar; et al., 97a:41016** *and* **97m:41012**
Grinshpan, A. Z. Hausdorff's moment sequences and exponential convolutions. (English summary) **97f:30012**
Grothmann, René Distribution of interpolation points. (English summary) **97e:41002**
Hartmann, Andreas Une approche de l'interpolation libre généralisée par la théorie des opérateurs et caractérisation des traces $H^p|_\Lambda$. (English summary) [An approach to generalized free interpolation using operator theory and characterization of the traces $H^p|_\Lambda$] **97k:47013**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 97a:41016** *and* **97m:41012**
Ismail, Mourad E. H. (*with* Rahman, Mizan) Ladder operators for Szegő polynomials and related biorthogonal rational functions. (English summary) **97k:33026**
Kaashoek, Marinus A. *see* **Ball, Joseph A.; et al., 97d:47021** *and* **Foias, Ciprian; et al., 97k:47012**
Khelfets, A. Ya. Hamburger moment problem: Parseval equality and A-singularity. (English summary) **97k:47014**
Kirstein, Bernd *see* **Fritzsche, Bernd; et al., 97d:47022**
Kolesnikov, S. V. On a problem of L. Carleson and S. Jacobs concerning the continuity of the function of best approximation from the class H^∞. (English summary) **97k:46027**
Kotochigov, A. M. (*with* Shirokov, N. A.) Free interpolation in Hölder classes over Jordan domains. (English summary) **97i:41007**
— Free interpolation in some spaces of analytic functions described in terms of Fourier coefficients. (English summary) **97k:41009**
Krupnik, Ilya (*with* Krupnik, N. Ya.; Matsaev, Vladimir) On canonical factorization of dissipative and positive matrix functions relative to non-simple contours. (English summary) **97i:47030**
Krupnik, N. Ya. *see* **Krupnik, Ilya; et al., 97i:47030**
Loubaton, Ph. *see* **Alpay, Daniel; et al., 97d:47019; 97d:47020** *and* **97e:47019**
Marshall, Donald E. (*with* Stray, Arne) Interpolating Blaschke products. (English summary) **97c:30042**
Matsaev, Vladimir *see* **Krupnik, Ilya; et al., 97i:47030**
McCabe, J. H. *see* **Common, A. K., 97e:30003**
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— *see also* **Bultheel, Adhemar; et al., 97a:41016** *and* **97m:41012**
Rahman, Mizan *see* **Ismail, Mourad E. H., 97k:33026**
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Stanković, Bogoljub Taylor expansion for generalized functions. (English summary) **97i:46075**
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Xia, Daoxing Hyponormal operators with finite rank self-commutators and quadrature domains. (English summary) **97i:47035**

30E10 Approximation in the complex domain

Abul-Ez, M. A. (*with* Kąkol, Jerzy) Mode of increase of power similar set of polynomials. **97h:30054**
Akeroyd, John An extension of Szegő's theorem. II. (English summary) **97h:30055**
Bernal-González, Luis Plane sets having dense holomorphic images. (English summary) **97d:30050**
— On universal entire functions with zero-free derivatives. (English summary) **97k:30048**
Boivin, André (*with* Bonilla, A.; Fariña Gil, Juan Carlos) Meromorphic approximation in weighted L^p spaces. (English summary) **97f:30053**
— (*with* Nersesyan, Ashot A.) An example in tangential meromorphic approximation. (English summary) **97g:30039**
Bonilla, A. *see* **Boivin, André; et al., 97f:30053**
Dovgoshei, A. A. On uniform polynomial approximation of entire functions on arbitrary compacta of the complex plane. (Russian. Russian summary) **97a:30049**
— Analytic continuation of functions from compact sets of zero logarithmic capacity. (Russian. English summary) **97j:30017**
Fariña Gil, Juan Carlos *see* **Boivin, André; et al., 97f:30053**
Gingold, Harry (*with* Knopfmacher, Arnold) Analytic properties of power product expansions. (English summary) **97b:30055**
Jin, Jia Hua *see* **Mo, Guo Duan, 97m:30053**
Kąkol, Jerzy *see* **Abul-Ez, M. A., 97h:30054**
Knopfmacher, Arnold *see* **Gingold, Harry, 97b:30055**
Liu, Xiaoyan (*with* Saff, Edward B.) Intermediate rows of the Walsh array of best rational approximants to meromorphic functions. (English summary) **97e:30065**
Mo, Guo Duan (*with* Jin, Jia Hua) Uniform weighted approximation by polynomials. (Chinese. English and Chinese summaries) **97m:30053**
Montes-Rodríguez, Alfonso A note on Birkhoff open sets. (English summary) **97h:30056**
Nersesyan, Ashot A. *see* **Boivin, André, 97g:30039**
Pritsker, I. E. Ray sequences of Laurent-type rational functions. (English summary) **97j:30018**
— (*with* Varga, Richard S.) The Szegő curve, zero distribution and weighted approximation. (English summary) **97m:30054**
Qiu, James Zhijian Approximation in the mean by rational functions. (English summary) **97g:30040**
Rubel, Lee A. Uniform approximation by rational functions which all satisfy the same algebraic differential equation. (English summary) **97c:30045**
Saff, Edward B. *see* **Liu, Xiaoyan, 97e:30065**
Sedletskiĭ, A. M. Approximation properties of systems of exponentials in $L^p(a,b)$. (Russian. Russian summary) **97m:30055**
Stahl, Herbert Convergence of rational interpolants. (English summary) **97k:30049**
Tokarzewski, Stanisław Two-point Padé approximants for the expansions of Stieltjes functions in real domain. (English summary) **97j:30019**
Tseng, Ching-Yih A multiple-exchange algorithm for complex Chebyshev approximation by polynomials on the unit circle. (English summary) **97f:30054**
Varga, Richard S. *see* **Pritsker, I. E., 97m:30054**

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Abrahams, I. David On the solution of Wiener-Hopf problems involving noncommutative matrix kernel decompositions. (English summary) **97m:35041**
Andrievskii, Vladimir Polynomial approximation to a piecewise analytic function on touching domains. (English summary) **97h:41008**
Baratchart, L. (*with* Leblond, Juliette; Partington, Jonathan R.) Hardy approximation to L^∞ functions on subsets of the circle. (English summary) **97g:41040**
Bernal-González, Luis A lot of "counterexamples" to Liouville's theorem. (English summary) **97d:30036**
Brown, Leon (*with* Schreiber, Bertram M.) Stochastic continuity and approximation. (English summary) **97j:60090**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Convergence of orthogonal rational functions. (English summary) **97j:41011**
Cravioto, Cathleen M. (*with* Jones, William B.; Thron, W. J.; Wyshinski, Nancy J.) Computation of special functions by Padé approximants with orthogonal polynomial denominators. (English summary) **97g:65050**
Cuyt, Annie (*with* Driver, Kathy; Lubinsky, Doron S.) Nuttall-Pommerenke theorems for homogeneous Padé approximants. (English summary) **97e:41016**
— (*with* Lubinsky, Doron S.) A de Montessus theorem for multivariate homogeneous Padé approximants. (English summary) **97h:41030**
Dovgoshei, A. A. Chebyshev approximation by polynomials on a closed subset with a unique limit point, and the analytic continuation of functions. (Russian. English and Ukrainian summaries) **97e:41010**
Driver, Kathy *see* **Cuyt, Annie; et al., 97e:41016**
Dunster, T. M. Error bounds for exponentially improved asymptotic solutions of ordinary differential equations having irregular singularities of rank one. (English summary) **97c:34110**
Dyn'kin, Evsey Cauchy integral decomposition for harmonic vector fields. (English summary) **97j:30016**
Feinstein, J. F. (*with* Lande, H.; O'Farrell, A. G.) Approximation and extension in normed spaces of infinitely differentiable functions. (English summary) **97k:46023**
Fisher, S. D. Widths and optimal sampling in spaces of analytic functions. (English summary) **97g:41039**
Gilewicz, Jacek (*with* Ivanov, Ivan Velichkov; Kovacheva, Ralitza K.) On the convergence of rational functions of best uniform approximation with unbounded number of the poles. (English summary) **97e:41014**
González-Vera, Pablo *see* **Bultheel, Adhemar; et al., 97j:41011**
Govil, N. K. (*with* Vetterlein, David H.) Inequalities for a class of polynomials sastisfying $p(z) \equiv z^n p(1/z)$. (English summary) **97i:30002**
He, Matthew X. Explicit representations of Faber polynomials for m-cusped hypocycloids. (English summary) **97g:41002**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 97j:41011**
Hwang, Jun Shung On level sets of analytic functions and growth control approximation. (English summary) **97b:30047**
Ivanov, Ivan Velichkov *see* **Gilewicz, Jacek; et al., 97e:41014**
Jones, William B. *see* **Cravioto, Cathleen M.; et al., 97g:65050**
Kasana, H. S. (*with* Kumar, Devendra) L^p approximation of generalized bi-axially symmetric potentials with fast growth. (English summary) **97c:31008**
Kovacheva, Ralitza K. *see* **Gilewicz, Jacek; et al., 97e:41014**
Kumar, Devendra *see* **Kasana, H. S., 97c:31008**
Lande, H. *see* **Feinstein, J. F.; et al., 97k:46023**
Leblond, Juliette *see* **Baratchart, L.; et al., 97g:41040**
Levin, A. L. (*with* Saff, Edward B.) Erratum: "Optimal ray sequences of rational functions connected with the Zolotarev problem" [Constr. Approx. **10** (1994), no. 2, 235–273; MR 95j:41017].
Li, Jia Liang The Padé approximation of a class of entire functions. (Chinese. Chinese summary) **97g:41020**
Li, Xin^3 (*with* Pan, K. C.) Strong and weak convergence of rational functions orthogonal on the circle. (English summary) **97d:42022**
Lubinsky, Doron S. *see* **Cuyt, Annie; et al., 97e:41016** *and* **97h:41030**
Magnus, Alphonse P. On optimal Padé-type cuts. (English summary) **97h:41031**
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Njåstad, Olav *see* **Bultheel, Adhemar; et al., 97j:41011**
Norvidas, Saulius Approximation of entire functions by exponential polynomials. (Russian. Lithuanian summary) **97b:32002**
O'Farrell, A. G. *see* **Feinstein, J. F.; et al., 97k:46023**
Pan, K. C. Convergence of orthogonal rational functions outside of the unit circle. (English summary) **97c:42046**
— *see also* **Li, Xin^3, 97d:42022**
Parfënov, O. G. Gel'fand and Bernstein widths of some classes of analytic functions. (Russian. English and Russian summaries) **97g:46028**
Partington, Jonathan R. *see* **Baratchart, L.; et al., 97g:41040**
Peherstorfer, Franz Minimal polynomials for compact sets of the complex plane. (English summary) **97g:41042**
Peller, V. V. (*with* Young, Nicholas J.) Continuity properties of best analytic approximation. (English summary) **97m:47031**
Qiu, James Zhijian Density of polynomials. **97e:46023**
Romanyuk, V. S. Approximation of classes of analytic functions by algebraic polynomials and Kolmogorov widths. (Russian. English and Ukrainian summaries) **97f:41025**
Saff, Edward B. *see* **Levin, A. L.**
Schreiber, Bertram M. *see* **Brown, Leon, 97j:60090**
Sibuya, Yasutaka Gevrey asymptotics. (*see* **97i:34003**)
Siciak, Józef Bernstein-Walsh type theorems for pluriharmonic functions. (English summary) **97g:31010**
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Sodin, Mikhail Which perturbations of quasianalytic weights preserve quasianalyticity? How to use de Branges' theorem. (English summary) **97k:41015**
Stahl, Herbert Simultaneous rational approximants. (English summary) **97g:41017**
Thron, W. J. *see* **Cravioto, Cathleen M.; et al., 97g:65050**

Tokarzewski, Stanisław N-point Padé approximants to real-valued Stieltjes series with nonzero radii of convergence. (English summary) **97j:41013**
Vetterlein, David H. *see* **Govil, N. K., 97i:30002**
Volchkov, V. V. Approximation of analytic functions by polynomials with integer coefficients. (Russian. Russian summary) **97b:41020**
Wilderotter, Klaus An asymptotically optimal algorithm for approximating bounded analytic functions. (English summary) **97k:41045**
Wyshinski, Nancy J. *see* **Craviotto, Cathleen M.; et al., 97g:65050**
Yang, Li Ming Approximation in the mean by bounded analytic functions. (English summary) **97c:46032**
Young, Nicholas J. *see* **Peller, V. V., 97m:47031**
Zherdenovskaya, I. D. (*with* Simonenko, I. B.) On a direct method for computing conformal mappings of polygons. (Russian) **97c:30009**

30E15 Asymptotic representations in the complex domain

Jelínek, Jiří A note on regularly asymptotic points. (English summary) **97e:30066**
Senouf, David Asymptotic and numerical approximations of the zeros of Fourier integrals. (English summary) **97e:30067**

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Braaksma, B. L. J. (*with* Stark, Dudley) A Darboux-type theorem for slowly varying functions. (English summary) **97m:41034**
Dunster, T. M. Error bounds for exponentially improved asymptotic solutions of ordinary differential equations having irregular singularities of rank one. (English summary) **97c:34110**
Fruchard, Augustin The sum of a function. (English summary) **97d:39002**
Li, Xin[3] (*with* Pan, K. C.) Strong and weak convergence of rational functions orthogonal on the circle. (English summary) **97d:42022**
Mu, Le Hua Asymptotic expression near the ellipse of convergence of Jacobi series in complex plane. (English summary) **97b:41033**
Pan, K. C. *see* **Li, Xin[3], 97d:42022**
Sellier, A. Application of the Hadamard's finite part concept to the asymptotic expansion of a class of multidimensional integrals. (English summary) **97i:41042**
Stark, Dudley *see* **Braaksma, B. L. J., 97m:41034**

30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

Behera, Akrur (*with* Nanda, Sribatsa) A proof of Cauchy's theorem. (English summary) **97i:30053**
Dansereau, A. P. Multipliers of Cauchy-Stieltjes type transforms. (English summary) **97e:30068**
Davies, K. T. R. (*with* Glasser, M. L.; Protopopescu, Vladimir; Tabakin, Frank) The mathematics of principal value integrals and applications to nuclear physics, transport theory, and condensed matter physics. (English summary) **97e:30069**
Dzhrbashyan, M. M. Weighted integral representations of analytic and smooth functions in the unit disk and in the complex plane. (Russian. English and Russian summaries) **97f:30055**
Glasser, M. L. *see* **Davies, K. T. R.; et al., 97e:30069**
Hallenbeck, D. J. (*with* Samotij, K.) A note on fractional Cauchy transforms and their multipliers. (English summary) **97g:30041**
Hu, Jicheng Boundary behaviour of Cauchy singular integrals. (English and Chinese summaries) **97d:30051**
Kerekesha, P. V. A new solution of the Dirichlet problem on the reconstruction of an analytic function in an annulus. (Russian) (*see* **97g:00017**)
Li, Dan Hen Cauchy principal value integrals with kernel density having discontinuous points. (Chinese. English and Chinese summaries)
Mattila, Pertti On the analytic capacity and curvature of some Cantor sets with non-σ-finite length. (English summary) **97d:30052**
Nanda, Sribatsa *see* **Behera, Akrur, 97i:30053**
Protopopescu, Vladimir *see* **Davies, K. T. R.; et al., 97e:30069**
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Samotij, K. *see* **Hallenbeck, D. J., 97g:30041**
Stoilov, Peio (*with* Racheva, M.) Properties of special classes of analytic functions which are multipliers of the Cauchy-Stieltjes integrals. (English summary) **97g:30042**
— On some interpolation theorems for the multipliers of the Cauchy-Stieltjes type integrals. (English summary) **97i:30054**
— Note on the multipliers of Cauchy integrals of logarithmic potentials. (English summary) **97j:30020**
Tabakin, Frank *see* **Davies, K. T. R.; et al., 97e:30069**

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Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Numerical quadratures on the unit circle. A survey with some new results. (English summary) **97a:41031**
Cherednichenko, V. G. Conjugation of harmonic and analytic functions: direct and inverse problems. (Russian) (*see* **97m:35003**)
Chevalier, Lucien (*with* Rosay, Jean-Pierre) A characterization of lines among Lipschitz graphs. **97g:42014**
Dyn'kin, Evsey Cauchy integral decomposition for harmonic vector fields. (English summary) **97j:30016**
González-Vera, Pablo (*with* Orive Rodríguez, Ramón A.; Santos-León, J. C.) Quadrature formulas with nodes on the unit circle. (*see* **97g:00019**)
— *see also* **Bultheel, Adhemar; et al., 97a:41031**
Heggie, M. (*with* Nicklason, G. R.) An integral representation for the generalized binomial function. (English summary) **97c:33007**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 97a:41031**
Hibschweiler, R. (*with* Nordgren, E.) Cauchy transforms of measures and weighted shift operators on the disc algebra. (English summary) **97m:46040**
Hui, Chung-Yuen (*with* Mukherjee, Subrata) Evaluation of hypersingular integrals in the boundary element method by complex variable techniques. (English summary) **97i:73104**
Iwaniec, Tadeusz (*with* Martin, Gaven J.) Riesz transforms and related singular integrals. **97k:42033**
Lopes, P. A. (*with* dos Santos, A. F.) A new approach to the convolution operator on a finite interval. (English summary) **97m:47028**
Martin, Gaven J. *see* **Iwaniec, Tadeusz, 97k:42033**
Mattila, Pertti Tangent measures, densities, and singular integrals. (English summary) **97j:28009**
— Removability, geometric measure theory, and singular integrals. (English summary) **97g:28007**
— (*with* Mel'nikov, M. S.; Verdera, Joan) The Cauchy integral, analytic capacity, and uniform rectifiability. **97k:31004**
Mel'nikov, M. S. *see* **Mattila, Pertti; et al., 97k:31004**
Mukherjee, Subrata *see* **Hui, Chung-Yuen, 97i:73104**
Nag, Subhashis Singular Cauchy integrals and conformal welding on Jordan curves. (English summary) **97c:30010**
Nakazi, Takahiko (*with* Yamada, Masahiro) (A_2)-conditions and Carleson inequalities in Bergman spaces. (English summary) **97i:46048**
Nicklason, G. R. *see* **Heggie, M., 97c:33007**
Njåstad, Olav *see* **Bultheel, Adhemar; et al., 97a:41031**
Nordgren, E. *see* **Hibschweiler, R., 97m:46040**
Orive Rodríguez, Ramón A. *see* **González-Vera, Pablo; et al., (97g:00019)**
Ramlau, Ronny Identification of optical thin film systems with the method of phase reconstruction. (English summary) **97e:78010**
Rosay, Jean-Pierre *see* **Chevalier, Lucien, 97g:42014**
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Sedletskiĭ, A. M. Complex variants of Abelian theorem for Laplace transform. (English summary) **97m:44003**
Semmes, Stephen W. Finding structure in sets with little smoothness. **97j:28010**
Simmonds, James G. Analytic functions, ideal fluid flow, and Bernoulli's equation. (English summary) **97i:76001**
Verdera, Joan *see* **Mattila, Pertti; et al., 97k:31004**
Vihtilä, Merja The boundedness of Riesz s-transforms of measures in $\mathbb{R}^n$. (English summary) **97b:44001**
Yamada, Masahiro *see* **Nakazi, Takahiko, 97i:46048**

30E25 Boundary value problems [see also 45Exx]

Alekhno, A. G. On a nonlinear boundary value problem on a simple closed piecewise-smooth contour with one corner point. (Russian) (*see* **97g:00017**)
Aleknа, P. The Riemann boundary value problem with plus-infinity index of logarithmic order for a complex contour. (Russian. Lithuanian summary) **97a:30050**
Alonso Tarancón, Orlando B. *see* **Mederos Anoceto, Otilio B., 97d:30053**
Azizov, M. On the complexity of boundary integral equations with analytic coefficients near a logarithmic singularity. (Russian. English and Ukrainian summaries) **97k:30050**
Bantsuri, R. D. Carleman-type problems with discontinuous coefficients for a circular annulus. (Russian) **97a:30051**
Bikchantaev, I. A. The Riemann problem with a degenerate coefficient on a Riemann surface. (Russian) **97k:30051**
Chen, Zhen Guo *see* **Qiao, Yu Ying; et al., 97h:30059**
Damjanović, Boško Interior boundary value problem for polyanalytic functions in simple connected regions. (English and Serbo-Croatian summaries) **97e:30070**
Demetrashvili, I. G. Solution of a boundary value problem in the theory of analytic functions. (Russian) **97a:30052**
Dimitrovski, Dragan *see* **Rajović, Miloje; et al., 97f:30057**
Efendiev, M. A. (*with* Wendland, Wolfgang L.) Nonlinear Riemann-Hilbert problems for multiply connected domains. **97h:30057**
Gariĭ'yanov, F. N. The problem of inverting a singular integral, and difference equations for functions that are analytic outside a square. (Russian) **97a:30053**
Huang, Sha Two boundary value problems for the regular functions with values in a real Clifford algebra in the hyperball. (English summary) **97h:30058**
— *see also* **Qiao, Yu Ying; et al., 97h:30059**
Kang, Shixiang *see* **Wen, Guo Chun, 97e:30071** *and* **97i:30056**
Kartasheva, L. V. (*with* Radchenko, T. N.) On the solution of a boundary value problem on a jump in the space of generalized functions Φ'_+ on the half-axis. (Russian) (*see* **97g:00017**)
Khvoshchinskaya, L. A. On the Riemann problem in the case of an arbitrary number of singular points. (Russian) (*see* **97g:00017**)
Kiyasov, S. N. The linear-fractional Riemann boundary value problem and its application to the factorization of some classes of second-order Hölder matrix functions. (Russian) **97m:30056**
Korzan, L. A. Boundary value problems for a strip with rectilinear cuts. (Russian. English and Russian summaries) **97a:30054**
Kravchenko, V. G. (*with* Migdal'skiĭ, A. I.) On a regularizing algorithm for some boundary value problems of linear conjugation. (Russian) **97f:30056**
Kruglov, V. E. On partial indices of the Riemann problem with matrices of permutation type. (Russian) (*see* **97g:00017**)
Lomadze, N. B. On a generalization of the Carleman boundary value problem for some unknown functions. (Russian. English and Georgian summaries)
Mederos Anoceto, Otilio B. (*with* Alonso Tarancón, Orlando B.) Quasijump problem for a Haseman problem for the half-plane with a special type of displacement. (Spanish. English and Spanish summaries) **97d:30053**
Migdal'skiĭ, A. I. *see* **Kravchenko, V. G., 97f:30056**
Pomerantseva, L. I. Solution of the Schwarz boundary value problem for a disk with cuts. (Russian) **97m:30057**
Qiao, Yu Ying (*with* Huang, Sha; Zhao, Hong Fang; Chen, Zhen Guo) A class of nonlinear boundary value problems in Clifford analysis. (Chinese. Chinese summary)

97h:30059
Radchenko, T. N. *see* **Kartasheva, L. V.**, (97g:00017)
Rajović, Miloje (*with* Dimitrovski, Dragan; Stoilković, Rade) Une solution élémentaire de l'équation de Vécua aux coéfficients analytiques par rapport à $z, \bar{z}$. (French and Macedonian summaries) [An elementary solution of the Vekua equation with analytic coefficients with respect to $z, \bar{z}$] **97f:30057**
Rysyuk, N. A. On a nonlinear generalization of the Riemann boundary value problem. (Russian) (*see* **97g:00017**)
Shevila, T. A. *see* **Zverovich, È. I., 97k:30052**
Stoilković, Rade *see* **Rajović, Miloje; et al., 97f:30057**
Timokhovich, O. V. Construction of a canonical matrix of a linear conjugation problem with a fourth-order permutational matrix. (Russian. English and Russian summaries) **97a:30055**
— Explicit solution of the problem of the modulus of a holomorphic function for a circular annulus. (Russian. English and Russian summaries) **97m:30058**
Varzugin, G. G. Asymptotics of oscillatory Riemann-Hilbert problems. (English summary) **97i:30055**
Wang, Chuan Rong (*with* Yang, Qiao-Lin) Linear conjugate boundary value problems. (English summary) **97m:30059**
Wen, Guo Chun (*with* Kang, Shixiang) The well-posedness of the Riemann-Hilbert boundary value problem for analytic functions. (English and Chinese summaries) **97e:30071**
— (*with* Kang, Shixiang) The well-posedness of the Poincaré boundary value problem for harmonic functions. (English and Chinese summaries) **97i:30056**
Wendland, Wolfgang L. *see* **Efendiev, M. A., 97h:30057**
Yang, Qiao-Lin *see* **Wang, Chuan Rong, 97m:30059**
Zhao, Hong Fang *see* **Qiao, Yu Ying; et al., 97h:30059**
Zverovich, È. I. (*with* Shevila, T. A.) A Cauchy-type integral in the classes E. (Russian. English and Russian summaries) **97k:30052**

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Aksent'ev, L. A. (*with* Kazantsev, A. V.; Popov, Nikolaĭ Ivanovich) Extremal problems for areas under conformal mapping and their application. (Russian) **97e:30015**
Babaev, S. A. On the well-posedness of a boundary value problem for elliptic systems in the plane. (Russian. Tajiki summary) **97b:35044**
Begehr, Heinrich G. W. Elliptic second order equations. **97i:35027**
— (*with* Wen, Guo Chun) ★ Nonlinear elliptic boundary value problems and their applications. (English summary) **97d:35068**
Beggs, Edwin J. The Riemann-Hilbert problem for singular positive loops. **97f:58011**
Bountis, Tassos C. *see* **Fokas, A. S., 97c:58098**
Cai, Hai Tao Periodic Riemann-Hilbert problem and applications to the anisotropic elastic plane theory. (English summary) **97i:73017**
— An application of complex analysis to periodic movable loading problems. (English summary) **97e:73083**
Dansereau, A. P. Multipliers of Cauchy-Stieltjes type transforms. (English summary) **97e:30068**
Dimitrovski, Dragan (*with* Rajović, Miloje; Stojiljković, Rade) On a generalization of I. N. Vekua's equation with analytic coefficients in $z, \bar{z}$. (Macedonian. English and Macedonian summaries) **97b:35084**
Dukhovny, Alexander Applications of vector Riemann boundary value problems to analysis of queueing systems. (English summary) **97d:60146**
Dyakonov, Konstantin M. On the moduli of holomorphic functions that are smooth up to the boundary. (English summary) **97m:30047**
Elizarov, A. M. Optimal control of unknown boundary shape in inverse boundary-value problems. (English summary) (*see* **97c:00037**)
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Habre, Samer S. The Fredholm alternative for second-order linear elliptic systems with VMO coefficients. (English summary) **97h:35041**
Huang, Sha A boundary value problem for hyperbolically harmonic functions in Clifford analysis. (Chinese. English and Chinese summaries) **97c:30052**
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Kazidzhanova, D. M. On the problem A for second-order elliptic systems in the plane. (Russian. Tajiki summary) **97a:35049**
Kosheleva, T. M. *see* **Tovmasyan, N. E., 97a:30005**
Koziev, A. On a boundary value problem with shift for a system of three first-order equations of composite type. (Russian. Russian and Tajiki summaries) **97c:35142**
Mshimba, Ali Seif The Riemann boundary value problem with piecewise continuous boundary data for holomorphic functions in some weighted Sobolev spaces $W_{1,p}(D, \rho)$. (English summary) **97k:35054**
— Solution of the Riemann boundary value problem with piecewise smooth boundary data for complex elliptic partial differential equations. (English summary) **97k:35055**
Noor, Khalida Inayat Some radii problems. (English summary) **97h:30018**
Pandey, J. N. ★ The Hilbert transform of Schwartz distributions and applications. (English summary) **97e:44010**
Popov, Nikolaĭ Ivanovich *see* **Aksent'ev, L. A.; et al., 97e:30015**
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Rakowski, Marek (*with* Spitkovsky, Ilya M.) On normal solvability of the Riemann problem with singular coefficient. (English summary) **97e:47026**
Rasulov, A. B. On a problem of linear conjugation type for a class of higher-order systems of elliptic type. (Russian. Tajiki summary) **97b:35045**
Sidorova, I. V. On a problem of Bitsadze-Samarskiĭ type for analytic functions. (Russian) **97d:45010**
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Tovmasyan, N. E. ★ Boundary value problems for partial differential equations and applications in electrodynamics. (English summary) **97c:35194**
— (*with* Kosheleva, T. M.) On a method for finding the zeros of analytic functions and its application for the solution of boundary value problems. (Russian. Russian summary) **97a:30005**
Wang, Li Ping On Riemann-Hilbert boundary value problem for complex elliptic system of first [order] equations. (English and Chinese summaries) **97d:35048**
— Boundary value problems for analytic functions on a product of annuli. (Chinese. English and Chinese summaries) **97f:32005**
Wen, Guo Chun *see* **Begehr, Heinrich G. W., 97d:35068**
Xu, Zhen Yuan[1] (*with* Zhou, Chiping) On Riemann-Hilbert problems for nonhomogeneous Dirac equations in a half space of $\mathbf{R}^m$ $(m \geq 2)$. (English summary) **97d:35167**
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30E99 None of the above, but in this section

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Chen, Jixiu (*with* Chen, Zhiguo; He, Chengqi) Boundary correspondence under $\mu(z)$-homeomorphisms. **97e:30034**
Chen, Zhiguo *see* **Chen, Jixiu; et al., 97e:30034**
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Tamanoi, Hirotaka Higher Schwarzian operators and combinatorics of the Schwarzian derivative. **97h:30001**

30Fxx Riemann surfaces

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

Accola, Robert D. M. ★ Topics in the theory of Riemann surfaces. **97k:30053**
Bujalance, E. (*with* Costa, Antonio F.; Fernández Arias, Arturo) Uniformization of Klein surfaces by maximal NEC groups. (English summary) **97g:30043**
Chetiya, Buddha Prasad (*with* Dutta, Sanjay Kumar; Patra, Kuntala) Genera of compact Riemann surfaces with dihedral automorphism groups. (English summary) **97m:30060**
Costa, Antonio F. (*with* Martínez, Ernesto) Parametrization of the moduli space of hyperelliptic and symmetric Riemann surfaces. (English summary) **97j:30021**
— *see also* **Bujalance, E.; et al., 97g:30043**
Dutta, Sanjay Kumar *see* **Chetiya, Buddha Prasad; et al., 97m:30060**
Fernández Arias, Arturo *see* **Bujalance, E.; et al., 97g:30043**
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Hidalgo, Rubén A. A note on the $12(g-1)$ bound. (English summary) **97b:30056**
Kobayashi, Akeo *see* **Kuribayashi, Akikazu; et al., 97h:30060**
Kuribayashi, Akikazu (*with* Kobayashi, Akeo; Ohmori, Shoji) Automorphism groups of compact Riemann surfaces. (English summary) **97h:30060**
Lyzzaik, Abdallah The geometry of open continuous mappings having two valences between Riemann surfaces. (English summary) **97d:30054**
Martínez, Ernesto *see* **Costa, Antonio F., 97j:30021**
Nasyrov, S. R. Generalized Riemann-Hurwitz formula. (English summary) **97f:30058**
Ohmori, Shoji *see* **Kuribayashi, Akikazu; et al., 97h:30060**
Patra, Kuntala *see* **Chetiya, Buddha Prasad; et al., 97m:30060**
Webster, S. M. Double valued reflection in the complex plane. **97f:30059**

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Baker, H. F. ★ Abelian functions. (English summary) **97b:14038**
Bavard, Christophe Disques extrémaux et surfaces modulaires. (English and French summaries) [Extremal disks and modular surfaces] **97i:30059**
Bessis, Laurence Harvey-Wiman hypermaps. (English and French summaries) **97k:20008**
Broughton, S. A. (*with* Bujalance, E.; Costa, Antonio F.; Gamboa, J. M.; Gromadzki, Grzegorz) Symmetries of Riemann surfaces on which $\mathrm{PSL}(2, q)$ acts as a Hurwitz automorphism group. **97e:14043**
Bujalance, E. *see* **Broughton, S. A.; et al., 97e:14043**
Chetiya, Buddha Prasad (*with* Patra, Kuntala) K-metacyclic groups of automorphisms of compact Riemann surfaces. (English summary) **97d:20064**
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Curtis, Debra (*with* Tretkoff, Marvin) Differential equations for the quadratic periods of abelian differentials. **97k:30054**
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Gamboa, J. M. *see* **Broughton, S. A.; et al., 97e:14043**
González-Diez, Gabino On prime Galois coverings of the Riemann sphere. **97e:14033**
— (*with* Hidalgo, Rubén A.) Conformal versus topological conjugacy of automorphisms on compact Riemann surfaces. (English summary) **97k:14031**
Gromadzki, Grzegorz Metabelian groups acting on compact Riemann surfaces. (English summary) **97b:20071**
— *see also* **Broughton, S. A.; et al., 97e:14043**
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Jing, Peidong Amenability, Poincaré series operator and Teichmüller distance. (English summary) **97b:30059**
Jones, Gareth A. (*with* Singerman, David) Belyĭ functions, hypermaps and Galois groups. **97g:11067**
Kawai, Shingo The symplectic nature of the space of projective connections on Riemann surfaces. **97a:32015**
Kawasaki, Masumi *see* **Kuribayashi, Akikazu; et al., 97d:14046**
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Kuribayashi, Akikazu (*with* Nakajo, Naoyuki; Kawasaki, Masumi) On the zero-maps and automorphism groups of a compact Riemann surface. (English summary) **97d:14046**
Matsuzaki, Katsuhiko (*with* Shiga, Hiroshige) Conformal conjugation of Fuchsian groups from the first kind to the second kind. **97i:30057**

Nakajo, Naoyuki *see* **Kuribayashi, Akikazu; et al., 97d:14046**
Okumura, Yoshihide Parametrizations of Teichmüller spaces. (English summary) **97m:32035**
Patra, Kuntala *see* **Chetiya, Buddha Prasad, 97d:20064**
Quine, J. R. Jacobian of the Picard curve. (English summary) **97k:14028**
Schmutz Schaller, Paul Compact Riemann surfaces with many systoles. **97e:11051**
Shiga, Hiroshige *see* **Matsuzaki, Katsuhiko, 97i:30057**
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Tretkoff, Marvin *see* **Curtis, Debra, 97k:30054**
Zverovich, È. I. *see* **Dolgopolova, O. B., (97g:00017)**

30F15 Harmonic functions on Riemann surfaces

Andreian Cazacu, Cabiria Quasiconformality and Riemann surfaces with global exhaustion. **97f:30060**
Bârză, Ilie Integration on nonorientable Riemann surfaces. (English summary) **97b:30057**
Cukierman, Fernando Rigidity of isotropic maps. (English summary) **97d:30055**
Damlakhi, M. K. (*with* Othman, Sadoon Ibrahim) Bôcher's theorem in a parabolic Riemann surface. (English summary) **97f:30061**
Masaoka, Hiroaki *see* **Segawa, Shigeo, (97i:00016)**
Matsuzaki, Katsuhiko The conservative-dissipative dichotomy for geometric covers of Riemann surfaces. (English summary) **97f:30062**
Othman, Sadoon Ibrahim *see* **Damlakhi, M. K., 97f:30061**
Segawa, Shigeo (*with* Masaoka, Hiroaki) Harmonic dimensions of covering surfaces. (Japanese) (*see* **97i:00016**)

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Andreian Cazacu, Cabiria (*with* Stanciu, Victoria) On a Gehring's theorem. **97a:30025**
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Vodop'yanov, S. K. Quasiconformal mappings on Carnot groups and their applications. (Russian) **97d:30025**

30F20 Classification theory of Riemann surfaces

Jin, Naondo On maximal Riemann surfaces. (English summary) **97h:30061**

Items with secondary classifications in 30F20

Benjamini, Itai (*with* Schramm, Oded) Harmonic functions on planar and almost planar graphs and manifolds, via circle packings. (English summary) **97k:31009**
Costa, Antonio F. (*with* Martínez, Ernesto) Parametrization of the moduli space of hyperelliptic and symmetric Riemann surfaces. (English summary) **97j:30021**
Holopainen, Ilkka (*with* Rickman, Seppo) Classification of Riemannian manifolds in conformally invariant potential theory. (English summary) **97b:31011**
Kesel'man, V. M. *see* **Zorich, V. A., 97f:31022**
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Schmutz Schaller, Paul Arithmetic Fuchsian groups and the number of systoles. **97h:30064**
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Yoshida, Masanori On the number of apparent singularities of the Riemann-Hilbert problem on Riemann surface. **97j:32016**
Zorich, V. A. (*with* Kesel'man, V. M.) On the conformal type of a Riemannian manifold. (Russian. Russian summary) **97f:31022**

30F25 Ideal boundary theory

Hara, Masaru Generalized corona problem of two-sheeted unlimited covering surfaces. (Japanese. English summary)
Qiu, Shu Xi Asymptotic points of meromorphic functions on a maximal noncompact Riemann surface. **97e:30073**

Items with secondary classifications in 30F25

Jin, Naondo On maximal Riemann surfaces. (English summary) **97h:30061**
Kawamura, Michihiko (*with* Nakai, Mitsuru; Tada, Toshimasa) Minimal Martin compactifications of Riemann surfaces with densities. (English summary) **97j:31009**
Lárusson, Finnur The Martin boundary action of Gromov hyperbolic covering groups and applications to Hardy classes. **97d:30047**
Nakai, Mitsuru *see* **Kawamura, Michihiko; et al., 97j:31009**
Tada, Toshimasa *see* **Kawamura, Michihiko; et al., 97j:31009**

30F30 Differentials on Riemann surfaces

Curtis, Debra (*with* Tretkoff, Marvin) Differential equations for the quadratic periods of abelian differentials. **97k:30054**
Kra, Irwin Corrigendum: "Quadratic differentials" [Rev. Roumaine Math. Pures Appl. **39** (1994), no. 8, 751–787; MR 95m:30058].
Syau, Yu-Ru On the existence of closed geodesics w.r.t. an admissible quadratic differential. (English summary) **97f:30063**
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Gutkin, Eugene (*with* Judge, Chris) The geometry and arithmetic of translation surfaces with applications to polygonal billiards. (English summary) **97c:58116**
Habermann, Lutz (*with* Jost, Jürgen) Riemannian metrics on Teichmüller space. (English summary) **97a:32013**
Higuchi, Teiichi *see* **Yamazaki, Seisi; et al., 97h:14044**
Ikeda, Toshikazu *see* **Yamazaki, Seisi; et al., 97h:14044**
Ito, Minoru[2] *see* **Yamazaki, Seisi; et al., 97h:14044**
Jin, Naondo On maximal Riemann surfaces. (English summary) **97h:30061**
Jing, Peidong Amenability, Poincaré series operator and Teichmüller distance. (English summary) **97b:30059**
Jost, Jürgen *see* **Habermann, Lutz, 97a:32013**
Judge, Chris *see* **Gutkin, Eugene, 97c:58116**
Kubo, Masahiko *see* **Yamazaki, Seisi; et al., 97h:14044**
Lakic, Nikola An isometry theorem for quadratic differentials on Riemann surfaces of finite genus. (English summary) **97i:30062**
Masur, Howard Teichmüller space, dynamics, probability. **97f:32020**
Saito, Yoshimitu *see* **Yamazaki, Seisi; et al., 97h:14044**
Tashiro, Masaaki *see* **Yamazaki, Seisi; et al., 97h:14044**
Wolf, Michael[1] Harmonic maps from surfaces to $\mathbb{R}$-trees. **97b:58042**
Yamazaki, Seisi (*with* Ito, Minoru[2]; Saito, Yoshimitu; Ikeda, Toshikazu; Kubo, Masahiko; Tashiro, Masaaki; Higuchi, Teiichi) Riemann's period matrix of $y^2 = x^{2n+2} - 1$. (English summary) **97h:14044**

30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]

Dolgopolova, O. B. Construction of fundamental functionals of unramified unlimited finite-sheeted coverings of a torus. (Russian. English and Russian summaries) **97d:30056**
Jiang, Yue Ping (*with* Zeng, San You) The conical limit sets of discrete convergence groups. (Chinese. English and Chinese summaries) **97d:30057**
Matsuzaki, Katsuhiko (*with* Shiga, Hiroshige) Conformal conjugation of Fuchsian groups from the first kind to the second kind. **97i:30057**
Sasaki, Takehiko The slice determined by moduli equation $xy = 2z$ in the deformation space of once punctured tori. **97h:30062**
Shiga, Hiroshige *see* **Matsuzaki, Katsuhiko, 97i:30057**
Zeng, San You *see* **Jiang, Yue Ping, 97d:30057**

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Beardon, Alan F. ★ The geometry of discrete groups. (English summary) **97d:22011**
— Some remarks on non-discrete Möbius groups. (English summary) **97d:20063**
Dai, Bin Lin (*with* Wang, Jian[1]) Inequalities for discrete Möbius groups. (Chinese. English and Chinese summaries)
Farkas, Hershel M. (*with* Kopeliovich, Yaacov; Kra, Irwin) Uniformizations of modular curves. **97j:11019a**
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Gilman, Jane Two-generator discrete subgroups of PSL(2, $\mathbb{R}$). (English summary) **97a:20082**
Glezen, P. F. (*with* Penner, Robert C.) Some harmonic functions on Minkowski space. **97g:31001**
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de la Harpe, Pierre (*with* Voiculescu, Dan-Virgil) A problem on the Π_1-factors of Fuchsian groups. **97m:46101**
Hertling, Peter Small spanning sets of cusp forms. **97a:11064**
Kopeliovich, Yaacov *see* **Farkas, Hershel M.; et al., 97j:11019a** *and* **97j:11019b**
Kra, Irwin Corrigendum: "Quadratic differentials" [Rev. Roumaine Math. Pures Appl. **39** (1994), no. 8, 751–787; MR 95m:30058].
— *see also* **Farkas, Hershel M.; et al., 97j:11019a** *and* **97j:11019b**
Kuusalo, T. *see* **Näätänen, M., 97i:20062**
Le Jan, Yves *see* **Guivarc'h, Yves, 97i:58136**
Näätänen, M. (*with* Kuusalo, T.) On arithmetic genus 2 subgroups of triangle groups. (English summary) **97i:20062**
Okumura, Yoshihide Parametrizations of Teichmüller spaces. (English summary) **97m:32035**
— Global real analytic length parameters for Teichmüller spaces. (English summary) **97b:32021**
Penner, Robert C. *see* **Glezen, P. F., 97g:31001**
Sandoval, Leonidas, Jr. Eichler integrals and string theory. (English summary) **97d:11069**
Schmidt, Thomas A. (*with* Sheingorn, Mark) Length spectra of the Hecke triangle groups. **97c:11048**
Sheingorn, Mark *see* **Schmidt, Thomas A., 97c:11048**
Sugawa, Toshiyuki On the space of schlicht projective structures on compact Riemann surfaces with boundary. **97a:30059**
Voiculescu, Dan-Virgil *see* **de la Harpe, Pierre, 97m:46101**
Wang, Jian[1] *see* **Dai, Bin Lin**
Wolf, Michael[1] Harmonic maps from surfaces to $\mathbb{R}$-trees. **97b:58042**
Zhao, Ru Han On inclusion relations between Bers-Orlicz spaces. (English summary) **97h:46051**

30F40 Kleinian groups [see also 20H10]

Bishop, Christopher J. On a theorem of Beardon and Maskit. (English summary) **97f:30064**
— Geometric exponents and Kleinian groups. (English summary) **97k:30055**
Gehring, F. W. (*with* Martin, Gaven J.) On the Margulis constant for Kleinian groups. I. (English summary) **97f:30065**
— (*with* Maclachlan, C.; Martin, Gaven J.) On the discreteness of the free product of finite cyclic groups. (English summary) **97i:30058**
Hidalgo, Rubén A. Kleinian groups with an invariant Jordan curve: J-groups. (English summary) **97d:30058**
— A commutator rigidity for Kleinian groups. (English summary) **97b:30058**
Jorgensen, Troels On Ahlfors' finiteness theorem. **97k:30056**
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Parker, John R. (*with* Series, Caroline) Bending formulae for convex hull boundaries. **97k:30057**
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Wang, Xian Tao Several properties of convergence groups. (Chinese. English and Chinese summaries) **97e:30074**
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Anderson, James W. (*with* Canary, Richard D.) Cores of hyperbolic 3-manifolds and limits of Kleinian groups. (English summary) **97k:57015**
— (*with* Canary, Richard D.) Algebraic limits of Kleinian groups which rearrange the pages of a book. **97h:57025**
Beardon, Alan F. Automorphic forms on nondiscrete Möbius groups. **97g:11045**
Bullett, Shaun *see* **Mantica, Giorgio, 97b:52021**
Büser, Jürgen Hybrid extension of Schottky space. **97a:57008**
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— *see also* **Anderson, James W., 97h:57025** *and* **97k:57015**
Cooper, Daryl Cyclic quotients of knot like groups. (English summary) **97a:57009**
Earle, Clifford J. (*with* Gardiner, Frederick P.) Teichmüller disks and Veech's $\mathcal{F}$-structures. (English summary) **97k:32031**
Fang, Ai Nong (*with* Jiang, Yue Ping; Fang, Ming[1]) On groups of Clifford matrices and Lie groups. (English summary) **97i:22004**
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— The noded Schottky space. (English summary) **97h:32031**
Hong, Sungbok (*with* Jeong, Myung Hwa; SaKong, Jung Sook) Characterizations of conical limit points for Kleinian groups. (English summary) **97k:57014**
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Tukia, Pekka The Poincaré series and the conformal measure of conical and Myrberg limit points. **97c:30047**
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30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)

Barrett, David E. (*with* Diller, Jeffrey) Contraction properties of the Poincaré series operator. **97m:30061**
Bavard, Christophe Disques extrémaux et surfaces modulaires. (English and French summaries) [Extremal disks and modular surfaces] **97i:30059**
Beardon, Alan F. The Schwarz-Pick lemma for derivatives. (English summary) **97m:30062**
Bonk, Mario (*with* Minda, David; Yanagihara, Hiroshi[3]) The hyperbolic metric on Bloch regions. (English summary) **97h:30063**
Diller, Jeffrey *see* **Barrett, David E., 97m:30061**
Haas, Andrew Howard Dirichlet points, Garnett points, and infinite ends of hyperbolic surfaces. I. (English summary) **97c:30046**
Herron, David A. (*with* Koskela, Pekka) Conformal capacity and the quasihyperbolic metric. (English summary) **97i:30060**
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30F50 Klein surfaces

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30F60 Teichmüller theory [see also 32G15]

Astala, Kari (*with* Zinsmeister, Michel) Rectifiability in Teichmüller theory. **97c:30048**
Ivanov, N. V. Action of Möbius transformations on homeomorphisms: stability and rigidity. **97e:30075**
Jing, Peidong Amenability, Poincaré series operator and Teichmüller distance. (English summary) **97b:30059**
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Liu, Li Xin A conjecture on the length spectrum of a Riemann surface. (Chinese) **97m:30064**
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González-Diez, Gabino (*with* Hidalgo, Rubén A.) Conformal versus topological conjugacy of automorphisms on compact Riemann surfaces. (English summary) **97k:14031**
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Habermann, Lutz (*with* Jost, Jürgen) Riemannian metrics on Teichmüller space. (English summary) **97a:32013**
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Wolf, Michael[1] Harmonic maps from surfaces to R-trees. **97b:58042**
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30F99 None of the above, but in this section

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Cherry, William A. *see* **Bonk, Mario**, **97k:30059**
Dolgopolova, O. B. Construction of unbounded unramified coverings of Riemann surfaces. (Russian) (*see* **97g:00017**)
Kolmakova, L. N. On the exponents of the elements of a normal basis of the ideal of algebraic functions on a three-sheeted Riemann surface. (Russian. English and Ukrainian summaries) **97b:30060**

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El Marruki, Mohamed (*with* Zvonkin, Alexander) Compositions des cartes et hypercartes. (French summary) [Compositions of maps and hypermaps] **97d:12006**
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Shihara, Kousuke (*with* Sasaki, Tateaki) Analytic continuation and Riemann surface determination of algebraic functions by computer. (English summary) **97c:14025**
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Zvonkin, Alexander *see* **El Marraki, Mohamed**, **97d:12006**

30Gxx Generalized function theory

30G06 Non-Archimedean function theory [see also 12J25]; nonstandard function theory [see also 03H05]

Feneyrol-Perrin, Yvette Variations nonstandard sur le théorème de Picard. [Nonstandard variations on the Picard theorem] (*see* **97m:00021**)
Fruchard, Augustin Complex analysis. (*see* **97g:03065**)

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Fruchard, Augustin La falaise d'un polynôme de Taylor. (English and French summaries) [The cliff of a Taylor polynomial] **97j:03122**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

Ilievski, Borko On a class of nonanalytic functions in which the mth deviation from analyticity is proportional to their complex conjugate value. (Russian. Russian and Macedonian summaries) **97e:30076**
Miloš, Čanak (*with* Protić, Ljubomir) Geometrische Theorie der p-analytischen Funktionen. (English and Macedonian summaries) [Geometric theory of p-analytic functions] **97d:30059**
Nicolau, Alexandru[1] Sur le problème de Dirichlet pour les systèmes du type elliptique, dans le plan avec une coupure. (French summary) [The Dirichlet problem for systems of elliptic type in the slit plane] **97e:30077**
Protić, Ljubomir *see* **Miloš, Čanak**, **97d:30059**
Renelt, Heinrich Generalized powers and extensions of analytic functions. (English summary) **97e:30078**
— Reihenentwicklungen für Lösungen Cauchy-Riemannscher Differentialgleichungssysteme. [Series expansions for solutions of Cauchy-Riemann systems of differential equations] **97i:30063**
Tutschke, Wolfgang 40 years generalized analytic functions—recent trends and open problems. **97a:30060**
— Results and problems in the theory of generalized analytic functions and its influence on the present development of mathematical analysis. (English summary) (*see* **97d:00020**)
— (*with* Withalm, C.) On integration and differentiation of generalized analytic functions. (English summary) **97d:30060**
Usmanov, Z. D. On a manifold of solutions of the singular generalized Cauchy-Riemann system. (Russian. Russian summary) **97i:30064**
Withalm, C. *see* **Tutschke, Wolfgang**, **97d:30060**
Ziemian, Bogdan Generalized analytic functions with applications to singular ordinary and partial differential equations. **97f:30066**

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Begehr, Heinrich G. W. Pseudoparabolic Vekua systems. **97a:35131**
— (*with* Wen, Guo Chun) ★ Nonlinear elliptic boundary value problems and their applications. (English summary) **97d:35068**
Çelebi, A. Okay *see* **Yüksel, Uğur**, **97a:35001**
Damjanović, Boško Interior boundary value problem for polyanalytic functions in simple connected regions. (English and Serbo-Croatian summaries) **97e:30070**
Dyn'kin, Evsey Cauchy integral decomposition for harmonic vector fields. (English summary) **97j:30016**
Gürlebeck, K. (*with* Kähler, U.) On a spatial generalization of the complex Π-operator. (English summary) **97f:35006**
Hayashi, Yasuo A global theory of some nonlinear Cauchy-Riemann system in several complex variables. (English summary) **97d:32023**
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Kohr-Ile, Mirela *see* **Lupu, Mircea**
Lupu, Mircea (*with* Kohr-Ile, Mirela) The application of (P, Q)-analytic functions to study of an axially-symmetric ideal and compressible jet. (Romanian summary)
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30G25 Discrete analytic functions

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Dubejko, Tomasz (*with* Stephenson, Kenneth) Circle packing: experiments in discrete analytic function theory. (English summary) **97f:52027**
Stephenson, Kenneth *see* **Bowers, Philip L.**, **97d:52027** *and* **Dubejko, Tomasz**, **97f:52027**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Gomonov, S. A. On the structure of limit sets of polyanalytic functions at isolated singular points. (Russian. Russian summary) **97e:30050**

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Escassut, Alain ★ Analytic elements in p-adic analysis. **97e:46106**
Kravchenko, V. V. (*with* Ramírez de Arellano, Enrique; Shapiro, M. V.) On integral representations and boundary properties of spinor fields. (English summary) **97g:35020**
Martínez, F. (*with* Villena Muñoz, Armando R.) A note on the path holomorphy of random functions holomorphic in mean. (English summary) **97g:60055**
Nevanlinna, Olavi A characteristic function for matrix valued meromorphic functions. **97m:30038**
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30G35 Functions of hypercomplex variables and generalized variables

Adams, W. W. (*with* Berenstein, Carlos A.; Loustaunau, P.; Sabadini, Irene; Struppa, Daniele C.) On compact singularities for regular functions of one quaternionic variable. (English summary) **97k:30060**
Berenstein, Carlos A. (*with* Sabatini, I.; Struppa, Daniele C.) Boundary values of regular functions of quaternionic variables. **97g:30045**
— *see also* **Adams, W. W.; et al.**, **97k:30060**
Beyder, Sergey A. On a method of constructing an analysis for functions with values in a Clifford algebra. (English summary) **97c:30051**
Cnops, J. (*with* Malonek, Helmuth R.) ★ An introduction to Clifford analysis. **97h:30065**
Heidrich, R. (*with* Jank, G.) On the iteration of quaternionic Moebius transformations. (English summary) **97e:30079**
Hempfling, Thomas Multinomials in modified Clifford analysis. (English summary) **97d:30061**
Huang, Sha A boundary value problem for hyperbolically harmonic functions in Clifford analysis. (Chinese. English and Chinese summaries) **97e:30052**
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Kalinovskiĭ, Yakov Aleksandrovich (*with* Roenko, N. V.; Sin'kov, M. V.) Methods for constructing nonlinearities in extensions of complex numbers. (Russian. English and Ukrainian summaries)
Kisil', Vladimir V. Connection between different function theories in Clifford analysis. (English summary) **97a:30061**
Królikowski, Wiesław On Fueter-Hurwitz regular mappings. (English summary) **97d:30062**
Kuznetsov, Sergei Petrovich[2] (*with* Mochalov, V. V.) Representation of the Laplace operator in Clifford algebras. (Russian) (*see* **97g:00017**)
Leutwiler, Heinz Remarks on modified Clifford analysis. (English summary) **97e:30080**
— Rudiments of a function theory in $\mathbf{R}^3$. (English summary) **97g:30046**
Loustaunau, P. *see* **Adams, W. W.; et al.**, **97k:30060**
Malonek, Helmuth R. *see* **Cnops, J.**, **97h:30065**
Marinov, Marin Stefanov Some integral formulae for generalized hyperholomorphic functions. (English summary) **97h:30066**
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Palamodov, V. P. On "holomorphic" functions of several quaternionic variables. (English summary) **97i:30065**
Qian, Tao (*with* Ryan, John) Conformal transformations and Hardy spaces arising in Clifford analysis. (English summary) **97d:30064**

Ramírez de Arellano, Enrique (*with* Shapiro, M. V.; Vasilevskiĭ, N. L.) The hyperholomorphic Bergman projector and its properties. (English summary) **97f:30067**
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Ryan, John Conformally covariant operators in Clifford analysis. (English summary) **97a:30062**
— Some applications of conformal covariance in Clifford analysis. (English summary) **97d:30065**
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— *see also* **Qian, Tao, 97d:30064**
Sabadini, Irene *see* **Adams, W. W.; et al., 97k:30060**
Sabatini, I. *see* **Berenstein, Carlos A.; et al., 97g:30045**
Schneider, Baruch The behaviour of the Clifford-Cauchy-type integral on a non-smooth surface of integration. (English summary) **97j:30022**
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— *see also* **Ramírez de Arellano, Enrique; et al., 97f:30067**
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Sommen, F. Monogenic functions of higher spin. (English summary) **97h:30067**
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Zeng, Yue Sheng A class of hypercomplex Cauchy-type b-integrals on fractal curves. (Chinese. English and Chinese summaries) **97m:30065**

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Chen, Zhen Guo *see* **Qiao, Yu Ying; et al., 97h:30059**
Dix, Daniel B. Applications of Clifford analysis to inverse scattering for the linear hierarchy in several space dimensions. (English summary) **97a:35003**
Gürlebeck, K. (*with* Kähler, U.) On a spatial generalization of the complex Π-operator. (English summary) **97f:35006**
Huang, Sha Two boundary value problems for the regular functions with values in a real Clifford algebra in the hyperball. (English summary) **97h:30058**
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Jawerth, Björn (*with* Mitrea, Marius) Acoustic scattering, Galerkin estimates and Clifford algebras. **97k:35037**
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Kravchenko, V. V. (*with* Santana, Gustavo) On singular integral operators associated with the vector Helmholtz equation. (English summary) **97g:35026**
— (*with* Malonek, Helmuth R.; Santana, Gustavo) Biquaternionic integral representations for massive Dirac spinors in a magnetic field and generalized biquaternionic differentiability. (English summary) **97k:35215**
Li, Chun[2] (*with* McIntosh, Alan) Clifford algebras and H_∞ functional calculi of commuting operators. **97f:47015**
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Malonek, Helmuth R. *see* **Kravchenko, V. V.; et al., 97k:35215**
McIntosh, Alan Clifford algebras, Fourier theory, singular integrals, and harmonic functions on Lipschitz domains. **97g:42013**
— *see also* **Li, Chun[2], 97f:47015**
Mel'nichenko, I. P. (*with* Plaksa, S. A.) Potential fields with axial symmetry, and analytic functions of a vector argument. (Russian. Russian summary) **97j:31001**
Mitrea, Marius Boundary value problems and Hardy spaces associated to the Helmholtz equation in Lipschitz domains. (English summary) **97g:35027**
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Obolashvili, E. I. Some partial differential equations in Clifford analysis. (English summary) (*see* **97j:00018**)
Plaksa, S. A. *see* **Mel'nichenko, I. P., 97j:31001**
Qian, Tao Singular integrals with monogenic kernels on the m-torus and their Lipschitz perturbations. (English summary) **97f:42032**
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Ryan, John Introduction. **97b:01015**
Sabadini, Irene (*with* Struppa, Daniele C.) Topologies on quaternionic hyperfunctions and duality theorems. (English summary) **97d:46048**
Santana, Gustavo *see* **Kravchenko, V. V., 97g:35026** *and* **97k:35215**
Škapin-Rugelj, Meta Iteration of a quaternionic quadratic family. (English summary) **97i:58090**
Storozhev, V. I. Integration of the equations of planar and flexural vibrations of anisotropic plates in special functions of generalized complex variables. (English summary) **97i:73065**
— Basic properties of special functions of generalized complex variables. (English summary) **97i:73066**
Struppa, Daniele C. *see* **Sabadini, Irene, 97d:46048**
Xu, Zhen Yuan[1] (*with* Zhou, Chiping) On Riemann-Hilbert problems for nonhomogeneous Dirac equations in a half space of $\mathbf{R}^m$ ($m \geq 2$). (English summary) **97d:35167**
Zhao, Hong Fang *see* **Qiao, Yu Ying; et al., 97h:30059**
Zhou, Chiping *see* **Xu, Zhen Yuan[1], 97d:35167**

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

Duren, Peter (*with* Khavinson, Dmitry; Shapiro, Harold S.) Extremal functions in invariant subspaces of Bergman spaces. **97h:30069**
Kalinin, S. I. On the approximation of solutions of a homogeneous π-convolution equation with several unknown functions. (Russian) **97i:30066**
Khavinson, Dmitry *see* **Duren, Peter; et al., 97h:30069**
Lee, Suk Young (*with* Shin, Dong Sun) Extremal structure of complex topological space. **97g:30047**
Shapiro, Harold S. *see* **Duren, Peter; et al., 97h:30069**
Shin, Dong Sun *see* **Lee, Suk Young, 97g:30047**
Skwarczyński, Maciej Completeness of Hermite system in the Bergman space over a strip. (English summary) **97m:30066a**
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Aleman, Alexandru (*with* Richter, Stefan; Ross, William T.) Bergman spaces on disconnected domains. (English summary) **97i:46043**
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Aulaskari, Rauno (*with* Lappan, Peter; Xiao, Jie[1]; Zhao, Ru Han) BMOA(R, m) and capacity density Bloch spaces on hyperbolic Riemann surfaces. (English summary) **97g:46022**
Choa, Jun Soo (*with* Kim, Hong Oh) Compact composition operators on the Nevanlinna class. (English summary) **97c:47031**
Conway, John B. (*with* Dudziak, James J.; Mel'nikov, M. S.) Pointwise bounded limits of rational functions on the string of beads. (English summary) **97b:46067**
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Dudziak, James J. *see* **Conway, John B.; et al., 97b:46067**
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Guo, Kun Yu Inner functions and corona problem. (English summary) **97i:46091**
Hedenmalm, Håkan (*with* Korenblum, Boris; Zhu, Ke He) Beurling type invariant subspaces of the Bergman spaces. **97h:46035**
— (*with* Richter, Stefan; Seip, Kristian) Interpolating sequences and invariant subspaces of given index in the Bergman spaces. **97i:46044**
Horowitz, C. (*with* Korenblum, Boris; Pinchuk, B.) Extremal functions and contractive divisors in A^{-n}. **97k:46026**
Kim, Hong Oh F-algebra M of holomorphic functions. (*see* **97i:00016**)
— *see also* **Choa, Jun Soo, 97c:47031**
Kishi, Kazuo A set in the fiber of $M(H^\infty)$ over the point 1. **97d:46059**
Korenblum, Boris *see* **Hedenmalm, Håkan; et al., 97h:46035** *and* **Horowitz, C.; et al., 97k:46026**
Korobeĭnik, Yu. F. On a right inverse for a convolution operator acting in germ spaces on connected sets in C. (Russian. Russian summary) **97c:47032**
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— (*with* Li, Song-Ying) Explicit solutions for the corona problem with Lipschitz data in the polydisc. (English summary) **97h:46088**
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Kumar, Niraj On a class of entire functions represented by Taylor Dirichlet series. (English summary) **97k:30005**
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Li, Song-Ying *see* **Krantz, Steven G., 97h:46088** *and* **97h:46089**
Li, Wan-She *see* **Wei, Han-Bai, 97e:46025**
Linchuk, S. S. *see* **Zvozdets'kiĭ, T. Ĭ., 97j:47049**
Luecking, Daniel H. Zero sequences for Bergman spaces. (English summary) **97g:30007**
Mel'nikov, M. S. *see* **Conway, John B.; et al., 97b:46067**
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Pandeski, Nikola Some closed ideals of $H^\infty(U)$. (English summary) **97d:46061**
Parfënov, O. G. Gel'fand and Bernstein widths of some classes of analytic functions. (Russian. English and Russian summaries) **97g:46028**
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Ponnusamy, S. The Hardy spaces of hypergeometric functions. (English summary) **97a:30018**
Qiu, James Zhijian Equivalence classes of subnormal operators. (English summary) **97a:47034**
— Density of polynomials. **97e:46023**
Render, Hermann Homomorphisms on Hadamard algebras. (English summary) **97e:46071**
— (*with* Sauer, Andreas) Invariance properties of homomorphisms on algebras of holomorphic functions with the Hadamard product. (English summary) **97g:46067**
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Schuster, Alexander P. Sets of sampling and interpolation in Bergman spaces. (English summary) **97g:46029**
Schwick, Wilhelm On Korenblum's maximum principle. (English summary) **97j:30007**
Seip, Kristian *see* **Hedenmalm, Håkan; et al., 97i:46044**
Shamoyan, F. A. Characterization of the rate of decrease of the Fourier coefficients of functions of bounded type and of a class of analytic functions with infinitely differentiable boundary values. (Russian. Russian summary) **97b:30050**
— On weak invertibility in weighted spaces of analytic functions. (Russian. Russian summary) **97m:46086**
Shimorin, S. M. Single-point extremal functions in weighted Bergman spaces. (English summary) **97k:46031**

Srinivasan, V. K. Topological linear spaces of entire Dirichlet series. (English summary) **97a:46029**
Srivastava, G. S. *see* **Kumar, Arvind, 97b:30041**
Stroethoff, Karel The Bloch space and Besov spaces of analytic functions. (English summary) **97i:46046**
Suárez, Fernando Daniel Multipliers of de Branges-Rovnyak spaces in H^2. **97g:46031**
Tanaka, Jun-ichi Single generator problem. (English summary) **97f:46086**
Vinnitskiĭ, B. V. Approximation properties of systems of exponentials in a space of analytic functions. (Russian. English and Ukrainian summaries) **97k:46029**
Vukotić, Dragan Linear extremal problems for Bergman spaces. (English summary) **97m:46117**
Wang, Jian[1] (*with* Gong, Zhi-Min) $\overline{\partial}$-equations and problems about ideals. (Chinese. English and Chinese summaries) **97b:46068**
Wei, Han-Bai (*with* Li, Wan-She) On spaces of some analytic functions defined on the unit disk. (English summary) **97e:46025**
Wu, Zhijian A class of bilinear forms on Dirichlet type spaces. (English summary) **97h:46039**
Xiao, Jian Bin Interpolation operators and multipliers on weighted Bergman spaces. (Chinese. English and Chinese summaries) **97e:46026**
Xiao, Jie[1] Dual space, Carleson measure and sequence interpolation on $A^p(\varphi)$ $(0 < p < 1)$. (English summary) **97i:46042**
— *see also* **Aulaskari, Rauno; et al., 97g:46022**
Yamada, Masahiro Interpolating sequences and embedding theorems in weighted Bergman spaces. (English summary) **97m:46037**
Zhao, Ru Han Decomposition for Bers-Orlicz spaces. (English summary) **97b:46038**
— On α-Bloch functions and VMOA. (English summary) **97j:30013**
— On a general family of function spaces. **97e:46027**
— *see also* **Aulaskari, Rauno; et al., 97g:46022**
Zhu, Ke He Sub-Bergman Hilbert spaces on the unit disk. **97f:46043**
— *see also* **Hedenmalm, Håkan; et al., 97h:46035**
Zvozdets'kiĭ, T. Ĭ. (*with* Līnchuk, S. S.) A generalization of the Berg-Dimovski convolution in spaces of analytic functions. (Ukrainian. English and Ukrainian summaries) **97j:47049**

31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 31–02

Levin, B. Ya. ★ Lectures on entire functions. (English summary) **97j:30001**
(Lyubarskiĭ, Yu. I.) *see* **Levin, B. Ya., 97j:30001**
(Sodin, Mikhail) *see* **Levin, B. Ya., 97j:30001**
(Tkachenko, Vadim Aleksandrovich) *see* **Levin, B. Ya., 97j:30001**

31–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 31–03

Archibald, Thomas From attraction theory to existence proofs: the evolution of potential-theoretic methods in the study of boundary-value problems, 1860–1890. (English and French summaries) **97d:01015**
Fichera, Gaetano Three battles lost by three great Italian mathematicians. (Italian) **97c:01028**

31–06 Proceedings, conferences, collections, etc.

(Král, Josef) *see* **Potential theory—ICPT 94, 97c:31001**
(Lukeš, Jaroslav) *see* **Potential theory—ICPT 94, 97c:31001**
(Netuka, Ivan) *see* **Potential theory—ICPT 94, 97c:31001**
(Veselý, Jiří) *see* **Potential theory—ICPT 94, 97c:31001**

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Conference:
Potential Theory ★ Potential theory—ICPT 94. **97c:31001**
Kouty ★ Potential theory—ICPT 94. **97c:31001**
Potential theory—ICPT 94 ★ Potential theory—ICPT 94. **97c:31001**

Items with secondary classifications in 31–06

(Biroli, Marco) *see* **Potential theory and degenerate partial differential operators, 97f:00021**
(Deville, Robert) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Esterle, J.) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Ławrynowicz, Julian) *see* **Generalizations of complex analysis and their applications in physics, 97d:00021**
(Petkov, Vesselin M.) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Sebbar, A.) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Tamrazov, P. M.) *see* **Generalizations of complex analysis and their applications in physics, 97d:00021**
(Yger, Alain) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**

Items listed otherwise than by author

Bordeaux ★ Complex analysis, harmonic analysis and applications. **97b:00016**
Complex analysis, harmonic analysis and applications ★ Complex analysis, harmonic analysis and applications. **97b:00016**
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Analytic Functions ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
Complex Analysis, Harmonic Analysis and Applications ★ Complex analysis, harmonic analysis and applications. **97b:00016**
Potential Theory and Degenerate Partial Differential Operators ★ Potential theory and degenerate partial differential operators. **97f:00021**
Generalizations of complex analysis and their applications in physics ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
Parma ★ Potential theory and degenerate partial differential operators. **97f:00021**
Potential theory and degenerate partial differential operators ★ Potential theory and degenerate partial differential operators. **97f:00021**
Rynia ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
Seminar:
Deformations of Mathematical Structures Applied in Physics ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
Structure of spaces of analytic and harmonic functions and the theory of operators on them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
Symposium:
Generalizations of Complex Analysis and their Applications in Physics ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
Structure of Spaces of Analytic and Harmonic Functions and the Theory of Operators on Them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
Warsaw ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**
Workshop:
Generalizations of Complex Analysis ★ Generalizations of complex analysis and their applications in physics. II. **97d:00021**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Barth, Karl F. (*with* Brannan, David A.) Asymptotic tracts of harmonic functions. III. (English summary) **97k:31001**
Brannan, David A. *see* **Barth, Karl F., 97k:31001**
Cámera, G. A. A sharp inequality for Bergman-Nevanlinna functions. (English summary) **97k:31002**
Dzhrbashyan, A. M. On subharmonic functions that have nonnegative harmonic majorants in a half-plane. (Russian. English and Russian summaries) **97c:31002**
Èlderman, V. Yu. (*with* Essén, Matts) Harmonic majorization of $|x_1|$ in subsets of $\mathbf{R}^n$, $n \geq 2$. (English summary) **97b:31001**
Essén, Matts *see* **Èlderman, V. Yu., 97b:31001**
Girnyk, M. A. An integral asymptotic representation of subharmonic functions. (Ukrainian summary) **97k:31003**
Glezen, P. F. (*with* Penner, Robert C.) Some harmonic functions on Minkowski space. **97g:31001**
Gustafsson, Björn A distortion theorem for quadrature domains for harmonic functions. (English summary) **97f:31001**
Kubach, Peter On the inverse mean value property of harmonic functions on ellipses and best harmonic L^1-approximation. (English summary) **97a:31001**
Maz'ya, Vladimir (*with* Solov'ëv, A. A.) Boundary integral equations of the logarithmic potential theory for domains with peaks. (English and Italian summaries) **97h:31001**
Mel'nichenko, I. P. (*with* Plaksa, S. A.) Potential fields with axial symmetry, and analytic functions of a vector argument. (Russian. Russian summary) **97j:31001**
Momm, Siegfried Plurisubharmonic saddles. (English summary) **97b:31002**
Othman, Sadoon Ibrahim Harmonic functions with asymptotic growth. (English summary) **97g:31002**
Penner, Robert C. *see* **Glezen, P. F., 97g:31001**
Plaksa, S. A. *see* **Mel'nichenko, I. P., 97j:31001**
Rudin, Walter The lemma of the logarithmic derivative for subharmonic functions. **97d:31001**
Solov'ëv, A. A. *see* **Maz'ya, Vladimir, 97h:31001**
Supper, Raphaële Applications de la transformation G à une interpolation de fonctions harmoniques de type exponentiel. (French summary) [Applications of the G-transformation to an interpolation of harmonic functions of exponential type] **97h:31002**
Vagarshakyan, A. A. A theorem on the representation of harmonic functions. (Russian) **97g:31003**

Items with secondary classifications in 31A05

Abu-Muhanna, Y. Bloch, BMO and harmonic univalent functions. (English summary) **97m:30045**
Baribeau, Line Subharmonicity of the circumradius. (English summary) **97d:46052**
Bârză, Ilie Integration on nonorientable Riemann surfaces. (English summary) **97b:30057**
Damlakhi, M. K. (*with* Othman, Sadoon Ibrahim) Bôcher's theorem in a parabolic Riemann surface. (English summary) **97f:30061**
Drasin, David The minimum modulus of subharmonic functions of order one and a method of Fryntov. **97e:30046**
Duren, Peter (*with* Hengartner, Walter; Laugesen, Richard S.) The argument principle for harmonic functions. **97f:30002**
Feng, Kang (*with* Yu, De Hao) A theorem on the natural integral operator of the harmonic equation. (Chinese. English and Chinese summaries) **97i:65174**
Grigorian, Armen (*with* Szapiel, Wojciech) Two-slit harmonic mappings. (English summary) **97d:30022**
Hansen, Wolfhard Restricted mean value property and harmonic functions. (English summary) **97g:31005**
Hengartner, Walter *see* **Duren, Peter; et al., 97f:30002**
Laugesen, Richard S. *see* **Duren, Peter; et al., 97f:30002**
Leutwiler, Heinz Remarks on modified Clifford analysis. (English summary) **97e:30080**
Lyubarskiĭ, Yu. I. (*with* Seip, Kristian) A uniqueness theorem for bounded analytic functions. **97m:30037**
Othman, Sadoon Ibrahim *see* **Damlakhi, M. K., 97f:30061**
Seip, Kristian *see* **Lyubarskiĭ, Yu. I., 97m:30037**
Szapiel, Wojciech *see* **Grigorian, Armen, 97d:30022**
Yu, De Hao *see* **Feng, Kang, 97i:65174**

31A10 Integral representations, integral operators, integral equations methods

Mattila, Pertti (*with* Mel'nikov, M. S.; Verdera, Joan) The Cauchy integral, analytic capacity, and uniform rectifiability. **97k:31004**
Mel'nikov, M. S. *see* **Mattila, Pertti; et al., 97k:31004**
Verdera, Joan *see* **Mattila, Pertti; et al., 97k:31004**

Items with secondary classifications in 31A10

Dzhrbashyan, M. M. Weighted integral representations of analytic and smooth functions in the unit disk and in the complex plane. (Russian. English and Russian summaries) **97f:30055**
Feng, Kang (*with* Yu, De Hao) A theorem on the natural integral operator of the harmonic equation. (Chinese. English and Chinese summaries) **97i:65174**
Kohr-Ile, Mirela On the existence of solutions for two-dimensional Stokes flows past rigid obstacles. (English summary) **97f:76026**
Shlapunov, A. A. On the Cauchy problem for the Lamé system. (English and German summaries) **97a:35231**
Yu, De Hao *see* **Feng, Kang, 97i:65174**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Balogh, Zoltan (*with* Vol'berg, A. L.) Boundary Harnack principle for separated

semihyperbolic repellers, harmonic measure applications. **97m:31001**

Batakis, Athanassios Harmonic measure of some Cantor type sets. (English summary) **97f:31002**

Kim, Do Wan The far field behavior of a single layer potential with linear strength distribution on a line segment. (English summary) **97f:31003**

Vol'berg, A. L. *see* **Balogh, Zoltan, 97m:31001**

Yamashita, Shinji Poincaré density and two capacities. (English summary) **97j:31002**

Items with secondary classifications in 31A15

Aikawa, Hiroaki (*with* Lundh, Torbjörn) On boundary layers. (English summary) **97j:31004**

Andrievskii, Vladimir (*with* Blatt, Hans-Peter) Erdös-Turán-type theorems on piecewise smooth curves and arcs. (English summary) **97j:41002**

Blatt, Hans-Peter *see* **Andrievskii, Vladimir, 97j:41002**

Grothmann, René Distribution of interpolation points. (English summary) **97e:41002**

Heurteaux, Yanick Mesure harmonique et équation de la chaleur. [Harmonic measure and the heat equation] **97k:35103**

Kaufman, Robert (*with* Wu, Jang-Mei) Two problems on doubling measures. **97k:28006**

Lundh, Torbjörn *see* **Aikawa, Hiroaki, 97j:31004**

Pritsker, I. E. (*with* Varga, Richard S.) The Szegö curve, zero distribution and weighted approximation. (English summary) **97m:30054**

Qiu, Shu Xi Harmonic mean measures on the boundary of a compact region. (Chinese. English and Chinese summaries) **97m:31006**

Totik, Vilmos Markoff constants for Cantor sets. (English summary) **97h:41028**

Varga, Richard S. *see* **Pritsker, I. E., 97m:30054**

Werner, Wendelin Beurling's projection theorem via one-dimensional Brownian motion. (English summary) **97j:60152**

Wu, Jang-Mei *see* **Kaufman, Robert, 97k:28006**

31A20 Boundary behavior (theorems of Fatou type, etc.)

Vymenets, Yu. Yu. On sets of uniqueness of harmonic functions in the unit disk. (Russian. English and Russian summaries) **97e:31003**

Items with secondary classifications in 31A20

Bass, Richard F. Brownian motion, heat kernels, and harmonic functions. (English summary) **97f:60171**

Bliedtner, Jürgen (*with* Loeb, Peter A.) Generalized radial limits and the best approach to boundaries. (English summary) **97k:31008**

Kraetzer, P. Experimental bounds for the universal integral means spectrum of conformal maps. (English summary) **97m:30018**

Loeb, Peter A. *see* **Bliedtner, Jürgen, 97k:31008**

Tamrazov, P. M. Differential contour-solid properties of analytic functions. (English summary) **97d:30043**

31A25 Boundary value and inverse problems

Bañuelos, Rodrigo (*with* Carroll, Tom) Addendum to: "Brownian motion and the fundamental frequency of a drum" [Duke Math. J. **75** (1994), no. 3, 575–602; MR 96m:31003]. **97f:31004**

Carroll, Tom *see* **Bañuelos, Rodrigo, 97f:31004**

Cherednichenko, V. G. Conjugation of harmonic and analytic functions: direct and inverse problems. (Russian) (*see* **97m:35003**)

Đặng Đình Áng (*with* Thanh, V. V.) Extrapolation in gravimetry: a moment problem. (*see* **97a:65003**)

— (*with* Thanh, V. V.) A regularized solution of an inverse problem of gravimetry. (*see* **97a:65003**)

Stepanova, I. È. On an integral equation for an inverse potential problem in the three-dimensional case. (Russian. Russian summary) **97g:31004**

Thanh, V. V. *see* **Đặng Đình Áng.** (**97a:65003**) *and* (**97a:65003**)

Vlasov, V. I. (*with* Volkov, D. B.) A method for solving a conjugation problem for harmonic functions. (Russian) **97a:31002**

Volkov, D. B. *see* **Vlasov, V. I., 97a:31002**

Vymenets, Yu. Yu. On the uniqueness and free interpolation of harmonic functions in the unit disk. (Russian. Russian summary) **97e:31004**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Shimorin, S. M. The Green function for the weighted biharmonic operator $\Delta(1-|z|^2)^{-\alpha}\Delta$ and the factorization of analytic functions. (Russian. English and Russian summaries) **97c:31005**

Vologzhaninov, Yu. I. Complex representation of even harmonic and biharmonic functions and their application in fluid mechanics. (Russian. Russian summary)

Items with secondary classifications in 31A30

Cai, Chong Xi (*with* Lin, Chang Hao) A Phragmén-Lindelöf alternative theorem for the biharmonic equation. (Chinese. English and Chinese summaries) **97f:35039**

Golubeva, A. S. Solutions of a plate oscillation equation that are concentrated near closed extremal cycles. (Russian. English and Russian summaries) **97m:35249**

Grunau, Hans-Christoph (*with* Sweers, Guido) Positivity for perturbations of polyharmonic operators with Dirichlet boundary conditions in two dimensions. (English summary) **97f:35040**

Kohr-Ile, Mirela On the existence of solutions for two-dimensional Stokes flows past rigid obstacles. (English summary) **97f:76026**

Lin, Chang Hao *see* **Cai, Chong Xi, 97f:35039**

Stroethoff, Karel A remark on spherical mean value theorems. (English summary) **97i:35025**

Sweers, Guido *see* **Grunau, Hans-Christoph, 97f:35040**

31A35 Connections with differential equations

Items with secondary classifications in 31A35

Bandle, C. (*with* Flucher, M.) Harmonic radius and concentration of energy; hyperbolic radius and Liouville's equations $\Delta U = e^U$ and $\Delta U = U^{(n+2)/(n-2)}$. (English summary) **97b:35046**

Flucher, M. *see* **Bandle, C., 97b:35046**

31A99 None of the above, but in this section

Items with secondary classifications in 31A99

Cohen, Joel M. (*with* Colonna, Flavia) Extreme points of the Bloch space of a homogeneous tree. (English summary) **97f:31027**

Colonna, Flavia *see* **Cohen, Joel M., 97f:31027**

Pruss, Alexander R. Symmetrization, Green's functions, harmonic measures and difference equations.

Smits, Robert G. Necessary and sufficient conditions for finiteness of lifetime. (English summary) **97k:60208**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Aikawa, Hiroaki Sets of determination for harmonic functions in an NTA domain. **97f:31005**

— Densities with the mean value property for harmonic functions in a Lipschitz domain. (English summary) **97e:31006**

Armitage, David H. The Riesz-Herglotz representation for positive harmonic functions via Choquet's theorem. (English summary) **97f:31006**

— Inequalities for the derivatives of harmonic functions. (English summary) **97k:31005**

— (*with* Gauthier, Paul M.) Recent developments in harmonic approximation, with applications. (English summary) **97f:31007**

Boukricha, A. (*with* Hansen, Wolfhard) Martin boundary for Schrödinger operators with singularity. **97b:31003**

Chung, Soon-Yeong Characterization of harmonic functions with singularity in hyperplane. **97b:31004**

Ebenfelt, Peter (*with* Khavinson, Dmitry) On point to point reflection of harmonic functions across real-analytic hypersurfaces in $\mathbf{R}^n$. (English summary) **97i:31001**

Èlderman, V. Ya. Metric characteristics of exceptional sets that arise in estimates for subharmonic functions. (Russian. Russian summary) **97e:31007**

Gardiner, Stephen J. Harmonic approximation. (English summary) **97h:31003**

Gauthier, Paul M. *see* **Armitage, David H., 97f:31007**

Girnyk, M. A. Asymptotics of canonical Picard integrals. (Russian. Russian summary) **97f:31008**

Hansen, Wolfhard Restricted mean value property and harmonic functions. (English summary) **97g:31005**

— (*with* Nadirashvili, N. S.) Restricted mean value property for positive functions. **97e:31001**

— *see also* **Boukricha, A., 97b:31003**

Ishikawa, Yujiro (*with* Nakai, Mitsuru; Tada, Toshimasa) A form of classical Picard principle. **97d:31002**

Karachik, V. V. Harmonic polynomials and the divisibility problem. (English summary) **97m:31002**

Kasana, H. S. (*with* Kumar, Devendra) L^p approximation of generalized bi-axially symmetric potentials with fast growth. (English summary) **97c:31008**

Khavinson, Dmitry *see* **Ebenfelt, Peter, 97i:31001**

Kołodziej, Sławomir (*with* Thorbiörnson, Johan) Separately harmonic and subharmonic functions. (English summary) **97i:31002**

Kondratyuk, A. A. *see* **Vasil'kīv, Ya. V.; et al., 97f:31009**

Kumar, Devendra *see* **Kasana, H. S., 97c:31008**

Matsugu, Yasuo Mean value theorems for M-harmonic functions. (Japanese) (*see* **97i:00016**)

Mattila, Pertti (*with* Paramonov, P. V.) On geometric properties of harmonic Lip_1-capacity. (English summary) **97b:31005**

Nadirashvili, N. S. *see* **Hansen, Wolfhard, 97e:31001**

Nakai, Mitsuru *see* **Ishikawa, Yujiro; et al., 97d:31002**

Paramonov, P. V. *see* **Mattila, Pertti, 97b:31005**

Riihentaus, Juhani Convex functions and subharmonic functions. (English summary) **97h:31004**

Rippon, P. J. The hyperplane mean of a positive subharmonic function. II. **97c:31009**

Stegenga, David A. (*with* Ullrich, David C.) Superharmonic functions in Hölder domains. **97j:31003**

Tada, Toshimasa *see* **Ishikawa, Yujiro; et al., 97d:31002**

Tarasyuk, S. Ī. *see* **Vasil'kīv, Ya. V.; et al., 97f:31009**

Thorbiörnson, Johan *see* **Kołodziej, Sławomir, 97i:31002**

Ullrich, David C. *see* **Stegenga, David A., 97j:31003**

Vasil'kīv, Ya. V. (*with* Kondratyuk, A. A.; Tarasyuk, S. Ī.) The general Paley problem. (Ukrainian. English and Ukrainian summaries) **97f:31009**

Volchkov, V. V. Definitive version of the mean-value theorem in the theory of harmonic functions. (Russian. Russian summary) **97g:31006**

Wheeden, Richard L. (*with* Wilson, J. Michael) Weighted norm estimates for gradients of half-space extensions. (English summary) **97c:31010**

Wilson, J. Michael *see* **Wheeden, Richard L., 97c:31010**

Yamaguchi, Hiroshi[1] Variation formulas for harmonic modules of domains in $\mathbf{R}^3$. **97c:31011**

Items with secondary classifications in 31B05

Anastassiou, George A. (*with* Bendikov, A. D.) A sharp error estimate for the numerical solution of multivariate Dirichlet problems. (English summary) **97m:65196**
Bendikov, A. D. *see* **Anastassiou, George A., 97m:65196**
Ben Nahia, Zouhir (*with* Ben Salem, Nejib) On a mean value property associated with the Weinstein operator. (English summary) **97i:35029**
Ben Salem, Nejib *see* **Ben Nahia, Zouhir, 97i:35029**
Bliedtner, Jürgen Approximation by harmonic functions. (English summary) **97g:31014**
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31B10 Integral representations, integral operators, integral equations methods

Král, Josef (*with* Medková, Dagmar) Angular limits of double layer potentials. **97d:31003**
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Rathsfeld, Andreas Erratum: "The invertibility of the double layer potential operator in the space of continuous functions defined on a polyhedron: the panel method" [Appl. Anal. **45** (1992), no. 1-4, 135–177; MR 95f:31006]. **97b:31006**
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31B15 Potentials and capacities, extremal length

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— (*with* Lundh, Torbjörn) On boundary layers. (English summary) **97j:31004**
— Bessel capacity, Hausdorff content and the tangential boundary behavior of harmonic functions. (English summary) **97j:31005**
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Caraman, Petru p-module for Grötzsch and Teichmüller rings. **97c:30029**
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31B20 Boundary value and inverse problems

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Torres, Rodolfo H. (*with* Welland, Grant V.) Layer potential operators and a space of boundary data for electromagnetism in nonsmooth domains. **97b:31008**
Van Tuyl, Andrew H. Asymptotic expansions with error bounds for the coefficients of capacity and induction of two spheres. (English summary) **97f:31016**
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Ben Abda, Amel *see* **Andrieux, Stéphane; et al., (97m:00027)**
Gustafsson, Björn (*with* Shahgholian, Henrik) Existence and geometric properties of solutions of a free boundary problem in potential theory. **97e:35205**
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Reichel, W. Radial symmetry for an electrostatic, a capillarity and some fully nonlinear overdetermined problems on exterior domains. (English summary) **97g:35055**
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Shahgholian, Henrik *see* **Gustafsson, Björn, 97e:35205**
Tovmasyan, N. E. ★ Boundary value problems for partial differential equations and applications in electrodynamics. (English summary) **97c:35194**
Yang, Fuqian (*with* Yao, Rong) The solution for mixed boundary value problems of two-dimensional potential theory. (English summary) **97a:35040**
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31B25 Boundary behavior

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Bliedtner, Jürgen (*with* Loeb, Peter A.) Generalized radial limits and the best approach to boundaries. (English summary) **97k:31008**
Brossard, Jean (*with* Chevalier, Lucien) Une réciproque optimale du théorème de Fatou ponctuel. (English and French summaries) [An optimal converse of the pointwise Fatou theorem] **97f:31017**
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Gardiner, Stephen J. The Lusin-Privalov theorem for subharmonic functions. (English summary) **97m:31003**
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Zorich, V. A. (*with* Kesel'man, V. M.) On the conformal type of a Riemannian manifold. (Russian. Russian summary) **97f:31022**

31B30 Biharmonic and polyharmonic equations and functions

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Bugīr, M. K. Ill-posed boundary value problems for an n-order polyharmonic equation. (Russian) **97d:35234**

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31B35 Connections with differential equations

Brzezina, Miroslav A note on the convexity theorem for mean values of subtemperatures. (English summary) **97c:31013**

Cator, E. A. Potential theory of Monge-Ampère on a Banach space. Minimum principle and Poisson property. (English summary) **97d:31006**

Hmissi, Mohamed Potentiels et attracteurs d'un système dynamique. (English summary) [Potentials and attractors of a dynamical system] **97f:31019**

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Baouendi, M. S. (*with* Rothschild, Linda Preiss) Unique continuation of harmonic functions at boundary points and applications to problems in complex analysis. **97f:31013**

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Brzezina, Miroslav (*with* Šimůnková, Martina) On the harmonic morphism for the Kolmogorov type operators. (English summary) **97f:35117**

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Kasana, H. S. (*with* Kumar, Devendra) L^p approximation of generalized bi-axially symmetric potentials with fast growth. (English summary) **97c:31008**

Khavin, Viktor Petrovich *see* **Presa Saguè, Arturo, 97b:58003**

Khavinson, Dmitry ★ Holomorphic partial differential equations and classical potential theory. **97i:35005**

Krőger, Pawel A counterexample in parabolic potential theory. **97j:35057**

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31B99 None of the above, but in this section

Gatto, A. Eduardo (*with* Vági, Stephen) On functions arising as potentials on spaces of homogeneous type. (English summary) **97g:31009**

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31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

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Kaimanovich, Vadim A. The Poisson boundary of polycyclic groups. (English summary) **97c:31014**

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Aida, Shigeki Gradient estimates of harmonic functions and the asymptotics of spectral gaps on path spaces. (English summary) **97e:58161**

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31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

Siciak, Józef Bernstein-Walsh type theorems for pluriharmonic functions. (English summary) **97g:31010**

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Cegrell, Urban (*with* Thorbiörnson, Johan) Extremal plurisubharmonic functions. (English summary) **97b:31010**

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31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Bauer, Heinz Recollections, reflections, results. Introductory thoughts to the ICPT 1994. (English summary) **97g:31011**

Holopainen, Ilkka (*with* Rickman, Seppo) Classification of Riemannian manifolds in conformally invariant potential theory. (English summary) **97b:31011**

Kaimanovich, Vadim A. Boundaries of invariant Markov operators: the identification problem. **97j:31008**

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Solbel'man, Ya. S. Condenser capacity and invariants of Riemannian submanifolds. (English and French summaries) **97d:31008**

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Khavin, Viktor Petrovich Approximation properties of harmonic vector fields and differential forms. (English summary) **97f:58005**

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31C15 Potentials and capacities

Beznea, Lucian (*with* Boboc, Nicu) Représentations des balayages sur les mesures excessives et versions de la propriété de Lindelöf. (English and French summaries) [Representations of balayages on excessive measures and versions of the Lindelöf property] **97b:31012**
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Hirsch, Francis Potential theory related to some multiparameter processes. (English summary) **97f:31023**
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Brzezina, Miroslav A note on the convexity theorem for mean values of subtemperatures. (English summary) **97c:31013**
Carron, Gilles Inégalités isopérimétriques de Faber-Krahn et conséquences. (English and French summaries) [Faber-Krahn isoperimetric inequalities and consequences] **97m:58198**
Cascante, Carme (*with* Ortega, Joaquín Ma.) Carleson measures on spaces of Hardy-Sobolev type. (English summary) **97c:32006**
van Casteren, Jan A. *see* **Demuth, Michael; et al.**, **97c:47052**
Demuth, Michael (*with* Gesztesy, Fritz; van Casteren, Jan A.; Zhao, Zhong Xin) Finite capacities in spectral theory. (English summary) **97c:47052**
Émilion, Richard Différentiation des capacités et des intégrales de Choquet. (English and French summaries) [Differentiation of capacities and Choquet integrals] **97m:28003**
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— (*with* Song, Shiqi) Symmetric Skorohod topology on n-variable functions and hierarchical Markov properties of n-parameter processes. (English summary) **97d:60122**
— Theory of capacity on the Wiener space. (English summary) **97f:60163**
— (*with* Song, Shiqi) Inequalities for Bochner's subordinates of two-parameter symmetric Markov processes. (English and French summaries) **97k:60207**
Klimov, V. S. Functional inequalities and generalized capacities. (Russian. Russian summary) **97b:46032**
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Mattner, L. Strict definiteness of integrals via complete monotonicity of derivatives. (English summary) **97m:26026**
McGillivray, Ivor A recurrence condition for some subordinated strongly local Dirichlet forms. (English summary) **97m:60111**
Mikkonen, Pasi On the Wolff potential and quasilinear elliptic equations involving measures. **97e:35069**
Nakai, Mitsuru Potential theory on Royden compactifications. (Japanese. English summary) **97f:31015**
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Qiu, Shu Xi Complex generalized weights and quasi-continuity. (English and Chinese summaries) **97h:31007**
Rakhmanov, E. A. Uniform measure and distribution of zeros of extremal polynomials of a discrete variable. (Russian. Russian summary) **97g:26015**
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31C20 Discrete potential theory and numerical methods

Benjamini, Itai (*with* Schramm, Oded) Harmonic functions on planar and almost planar graphs and manifolds, via circle packings. (English summary) **97k:31009**
Holopainen, Ilkka (*with* Soardi, Paolo M.) A strong Liouville theorem for p-harmonic functions on graphs. (English summary) **97m:31004**
Pruss, Alexander R. Symmetrization, Green's functions, harmonic measures and difference equations.
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Diaconis, Persi (*with* Saloff-Coste, Laurent) Nash inequalities for finite Markov chains. (English summary) **97d:60114**
Elliott, William D. (*with* Board, John A., Jr.) Fast Fourier transform accelerated fast multipole algorithm. (English summary) **97b:65154**
Fukai, Yasunari (*with* Uchiyama, Kôhei) Potential kernel for two-dimensional random walk. (English summary) **97m:60098**
— (*with* Uchiyama, Kôhei) Wiener's test for space-time random walks and its applications. (English summary) **97j:60130**
Hu, Di He *see* **Hu, Xiao Yu**, **97a:28004**
Hu, Xiao Yu (*with* Hu, Di He) The dimension of the zero set of a recurrent random walk. (Chinese. Chinese summary) **97a:28004**
Nakai, Mitsuru Monotone discontinuity of lattice operations in a quasilinear harmonic space. (English summary) **97e:31008**
Ryaben'kiĭ, V. S. Potentials for general linear systems of difference equations on abstract grids. (Russian. Russian summary) **97f:39007**
Saloff-Coste, Laurent *see* **Diaconis, Persi**, **97d:60114**
Uchiyama, Kôhei *see* **Fukai, Yasunari**, **97j:60130** *and* **97m:60098**

31C25 Dirichlet spaces

Bendikov, A. D. Remarks concerning the analysis on local Dirichlet spaces. (English summary) **97c:31015**
Bouleau, Nicolas Constructions of Dirichlet structures. (English summary) **97j:31010**
Chang, Zhi Hua (*with* Yang, Li Hong) Perturbations of Dirichlet forms by Dirichlet forms. (Chinese. English and Chinese summaries)
Hoh, Walter (*with* Jacob, Niels) Upper bounds and conservativeness for semigroups associated with a class of Dirichlet forms generated by pseudo-differential operators. (English summary) **97f:31025**
Jacob, Niels Non-local (semi-) Dirichlet forms generated by pseudodifferential operators. **97a:31003**
— *see also* **Hoh, Walter**, **97f:31025**
Komatsu, Takashi Uniform estimates for fundamental solutions associated with non-local Dirichlet forms. **97d:31010**
Ma, Zhi Ming Quasi-regular Dirichlet forms and applications. **97j:31011**
Metz, Volker Renormalization on fractals. (English summary) **97f:31026**
— Renormalization contracts on nested fractals. (English and French summaries) **97b:31013**
Shigekawa, Ichiro An example of regular (r, p)-capacity and essential self-adjointness of a diffusion operator in infinite dimensions. **97e:31004**
Sturm, Karl-Theodor Sharp estimates for capacities and applications to symmetric diffusions. (English summary) **97a:31004**
— Analysis on local Dirichlet spaces. III. The parabolic Harnack inequality. (English summary) **97k:31010**
Takeda, Masayoshi Transformations of local Dirichlet forms by supermartingale multiplicative functions. (English summary) **97d:31011**
— Two classes of extensions for generalized Schrödinger operators. (English summary) **97e:31005**
Uboe, Jan (*with* Zhang, Tu Sheng) Gaussian tail estimates for Dirichlet processes. (English summary) **97k:31011**
Yang, Li Hong *see* **Chang, Zhi Hua**
Ying, Jiangang Killing and subordination. (English summary) **97a:31005**
Zhang, Tu Sheng *see* **Uboe, Jan**, **97k:31011**

Items with secondary classifications in 31C25

Accardi, Luigi Yang-Mills equations and Lévy-Laplacians. (English summary) **97c:46093**
Albeverio, Sergio (*with* Johnson, Gerald W.; Ma, Zhi Ming) The analytic operator-valued Feynman integral via additive functionals of Brownian motion. (English summary) **97f:28037**
— (*with* Kondrat'ev, Yu. G.; Röckner, Michael) Canonical Dirichlet operator and distorted Brownian motion on Poisson spaces. (English and French summaries) **97k:58177**
Bogachev, V. I. (*with* Röckner, Michael; Schmuland, Byron) Generalized Mehler semigroups and applications. (English summary) **97b:47042**
Cattiaux, Patrick (*with* Fradon, Myriam) Entropy, reversible diffusion processes, and Markov uniqueness. (English summary) **97g:60101**
Chen, Zhen-Qing Reflecting Brownian motions and a deletion result for Sobolev spaces of order $(1, 2)$. (English summary) **97f:46048**
Eberle, Andreas Girsanov-type transformations of local Dirichlet forms: an analytic approach. **97m:60110**
Fitzsimmons, Patrick J. Even and odd continuous additive functionals. (English summary) **97c:60191**
Fradon, Myriam *see* **Cattiaux, Patrick**, **97g:60101**
Fukushima, Masatoshi On a decomposition of additive functionals in the strict sense for a symmetric Markov process. (English summary) **97k:60210**
Guido, Daniele (*with* Isola, Tommaso; Scarlatti, Sergio) Non-symmetric Dirichlet forms on semifinite von Neumann algebras. (English summary) **97h:46105**
Hoh, Walter (*with* Jacob, Niels) On the Dirichlet problem for pseudodifferential operators generating Feller semigroups. (English summary) **97c:35227**
Isola, Tommaso *see* **Guido, Daniele; et al.**, **97h:46105**
Jacob, Niels ★ Pseudo-differential operators and Markov processes. **97m:60109**
— *see also* **Hoh, Walter**, **97c:35227**
Jevtić, Miroljub On $\mathscr{M}$-harmonic space $\mathscr{B}_p^1$. (English summary) **97e:46039**
Johnson, Gerald W. *see* **Albeverio, Sergio; et al.**, **97f:28037**
Kigami, Jun Laplacians on self-similar sets and their spectral distributions. (English summary) **97g:28012**
— Laplacians on self-similar sets and their spectral distributions. (*see* **97c:58004**)
Kondrat'ev, Yu. G. *see* **Albeverio, Sergio; et al.**, **97k:58177**
Kumagai, Takashi (*with* Kusuoka, Shigeo) Homogenization on nested fractals. (English summary) **97b:60131**
Kusuoka, Shigeo *see* **Kumagai, Takashi**, **97b:60131**
Kuwae, Kazuhiro Permanent sets of measures charging no exceptional sets and the Feynman-Kac formula. (English summary) **97e:60127**
Lim, Hye Young (*with* Park, Yong Moon; Yoo, Hyun Jae) Dirichlet forms and diffusion processes related to quantum unbounded spin systems. **97j:82013**
Lyons, Terence J. (*with* Stoica, Lucreţiu) On the limit of stochastic integrals of differential forms. **97e:60088**
— (*with* Zhang, Tu Sheng) Convergence of non-symmetric Dirichlet processes. (English summary) **97i:60101**
Ma, Zhi Ming *see* **Albeverio, Sergio; et al.**, **97f:28037**
McGillivray, Ivor (*with* Ouhabaz, El-Maati) Some spectral properties of recurrent semigroups. **97d:47045**
— Capacitary estimates for Dirichlet eigenvalues. (English summary) **97f:31024**
— A recurrence condition for some subordinated strongly local Dirichlet forms. (English summary) **97m:60111**
Metz, Volker (*with* Sturm, Karl-Theodor) Gaussian and non-Gaussian estimates for heat kernels on the Sierpiński gasket. (English summary) **97b:60132**

Ôkura, Hiroyuki Capacitary inequalities and global properties of symmetric Dirichlet forms. (English summary) **97e:60128**
Osada, Hirofumi (*with* Saitoh, Toshifumi) An invariance principle for non-symmetric Markov processes and reflecting diffusions in random domains. (English summary) **97d:60128**
Oshima, Yoichi Time dependent Dirichlet forms and its application to a transformation of space-time Markov processes. (English summary) **97d:60127**
Ouhabaz, El-Maati (*with* Stollmann, Peter; Sturm, Karl-Theodor; Voigt, Jürgen) The Feller property for absorption semigroups. (English summary) **97j:47061**
— *see also* **McGillivray, Ivor, 97d:47045**
Park, Yong Moon *see* **Lim, Hye Young; et al., 97j:82013**
Pietruska-Pałuba, Katarzyna The reflected Brownian motion on the Sierpiński gasket. (English summary) **97h:60090**
Popa, Eugen (*with* Popa, Liliana) Tensor product of standard H-cones and duality. (English summary) **97f:31029**
Popa, Liliana *see* **Popa, Eugen, 97f:31029**
Posilicano, Andrea Convergence of distorted Brownian motions and singular Hamiltonians. (English summary) **97j:60143**
Röckner, Michael *see* **Bogachev, V. I.; et al., 97b:47042** *and* **Albeverio, Sergio; et al., 97k:58177**
Saitoh, Toshifumi *see* **Osada, Hirofumi, 97d:60128**
Sartori, Elena Local regularity for solutions to Schrödinger equations relative to Dirichlet forms. (English and Italian summaries) **97c:35038**
Scarlatti, Sergio *see* **Guido, Daniele; et al., 97h:46105**
Schmuland, Byron *see* **Bogachev, V. I.; et al., 97b:47042**
Siskakis, Aristomenis G. Semigroups of composition operators on the Dirichlet space. (English summary) **97i:47083**
Stannat, Wilhelm First order perturbations of Dirichlet operators: existence and uniqueness. (English summary) **97k:47036**
Stoica, Lucreţiu *see* **Lyons, Terence J., 97e:60088**
Stollmann, Peter Processes associated with quasi-regular Dirichlet forms. (English summary) **97h:60080**
— (*with* Voigt, Jürgen) Perturbation of Dirichlet forms by measures. (English summary) **97e:47065**
— *see also* **Ouhabaz, El-Maati; et al., 97j:47061**
Sturm, Karl-Theodor Analysis on local Dirichlet spaces. II. Upper Gaussian estimates for the fundamental solutions of parabolic equations. **97b:35003**
— *see also* **Metz, Volker, 97b:60132** *and* **Ouhabaz, El-Maati; et al., 97j:47061**
Uemura, Toshihiro On weak convergence of diffusion processes generated by energy forms. **97c:60199**
Voigt, Jürgen *see* **Stollmann, Peter, 97e:47065** *and* **Ouhabaz, El-Maati; et al., 97j:47061**
Yang, Qingji Itô's formula for multidimensional convex functions. (English summary) **97c:60208**
Ying, Jiangang Bivariate Revuz measures and the Feynman-Kac formula. (English summary) **97j:60139**
Yoo, Hyun Jae *see* **Lim, Hye Young; et al., 97j:82013**
Zhang, Tu Sheng *see* **Lyons, Terence J., 97i:60101**

31C35 Martin boundary theory [see also 60J50]

Bliedtner, Jürgen (*with* Loeb, Peter A.) Generalized radial limits associated with representing measures. **97c:31016**
Guivarc'h, Yves Compactifications of symmetric spaces and positive eigenfunctions of the Laplacian. **97j:31012**
(Ji, Lizhen) *see* **Guivarc'h, Yves, 97j:31012**
Loeb, Peter A. *see* **Bliedtner, Jürgen, 97c:31016**
(Taylor, John Christopher) *see* **Guivarc'h, Yves, 97j:31012**

Items with secondary classifications in 31C35

Aikawa, Hiroaki Densities with the mean value property for harmonic functions in a Lipschitz domain. (English summary) **97e:31006**
Bauer, Heinz Recollections, reflections, results. Introductory thoughts to the ICPT 1994. (English summary) **97g:31011**
Bliedtner, Jürgen (*with* Loeb, Peter A.) Generalized radial limits and the best approach to boundaries. (English summary) **97k:31008**
Boukricha, A. (*with* Hansen, Wolfhard) Martin boundary for Schrödinger operators with singularity. **97b:31003**
Èlderman, V. Ya. (*with* Essén, Matts) Harmonic majorization of $|x_1|$ in subsets of $\mathbf{R}^n$, $n \geq 2$. (English summary) **97b:31001**
Essén, Matts *see* **Èlderman, V. Ya., 97b:31001**
Hansen, Wolfhard Restricted mean value property and harmonic functions. (English summary) **97g:31005**
— (*with* Nadirashvili, N. S.) Restricted mean value property for positive functions. **97e:31001**
— *see also* **Boukricha, A., 97b:31003**
Kaimanovich, Vadim A. Boundaries of invariant Markov operators: the identification problem. **97j:31008**
Loeb, Peter A. *see* **Bliedtner, Jürgen, 97k:31008**
Nadirashvili, N. S. *see* **Hansen, Wolfhard, 97e:31001**

31C40 Fine potential theory

Items with secondary classifications in 31C40

Beznea, Lucian (*with* Boboc, Nicu) Représentations des balayages sur les mesures excessives et versions de la propriété de Lindelöf. (English and French summaries) [Representations of balayages on excessive measures and versions of the Lindelöf property] **97b:31012**
Boboc, Nicu *see* **Beznea, Lucian, 97b:31012**

31C45 Other generalizations (nonlinear potential theory, etc.)

Kurki, Jukka Invariant sets for A-harmonic measure. (English summary) **97g:31013**
Latvala, Visa Fine $\mathcal{A}$-supersolutions and finely $\mathcal{A}$-superharmonic functions. (English summary) **97h:31006**

Items with secondary classifications in 31C45

Alssaoui, N. On the continuity of Bessel potentials in Orlicz spaces. (English summary) **97d:31004**
Heinonen, Juha (*with* Koskela, Pekka) Weighted Sobolev and Poincaré inequalities and quasiregular mappings of polynomial type. **97e:30039**
Holopainen, Ilkka (*with* Rickman, Seppo) Classification of Riemannian manifolds in conformally invariant potential theory. (English summary) **97b:31011**
— (*with* Soardi, Paolo M.) A strong Liouville theorem for p-harmonic functions on graphs. (English summary) **97m:31004**
Kilpeläinen, Tero (*with* Lindqvist, P.) On the Dirichlet boundary value problem for a degenerate parabolic equation. (English summary) **97b:35118**
Koskela, Pekka *see* **Heinonen, Juha, 97e:30039**
Lindqvist, P. *see* **Kilpeläinen, Tero, 97b:35118**
Malý, Jan Nonlinear potentials and quasilinear PDEs. (English summary) **97f:35052**
— Potential estimates and Wiener criteria for quasilinear elliptic equations. (English summary) **97j:35038**
Mikkonen, Pasi On the Wolff potential and quasilinear elliptic equations involving measures. **97e:35069**
Nakai, Mitsuru Monotone discontinuity of lattice operations in a quasilinear harmonic space. (English summary) **97e:31008**
Rickman, Seppo *see* **Holopainen, Ilkka, 97b:31011**
Soardi, Paolo M. *see* **Holopainen, Ilkka, 97m:31004**
Turesson, Bengt Ove ★ Nonlinear potential theory and weighted Sobolev spaces. **97c:46042**
Zemanian, Armen H. A maximum principle for node voltages in finitely structured, transfinite, electrical networks. (English summary) **97c:94022**

31C99 None of the above, but in this section

Cohen, Joel M. (*with* Colonna, Flavia) Extreme points of the Bloch space of a homogeneous tree. (English summary) **97f:31027**
Colonna, Flavia *see* **Cohen, Joel M., 97f:31027**
Gao, Qi Ren Generalized weightable sets. (Chinese. English and Chinese summaries) **97i:31003**
Li, Jun Ping Harmonic analysis on SG(2, 3). (Chinese. English and Chinese summaries)
Love, E. Russell (*with* Vũ Kim Tuân) L^p-continuity of Riesz potentials. (English summary) **97e:31006**
Qiu, Shu Xi Complex generalized weights and quasi-continuity. (English and Chinese summaries) **97h:31007**
— Total variations of complex pregeneralized weights. (Chinese. English and Chinese summaries) **97f:31028**
Vũ Kim Tuân *see* **Love, E. Russell, 97e:31006**

Items with secondary classifications in 31C99

Arbuzov, E. V. (*with* Bukhgeĭm, A. L.) The Cauchy problem for A-harmonic functions. (English summary) **97b:35189**
Borell, Christer A note on parabolic convexity and heat conduction. (English and French summaries) **97d:35087**
Bukhgeĭm, A. L. *see* **Arbuzov, E. V., 97b:35189**
Cator, E. A. Potential theory of Monge-Ampère on a Banach space. Minimum principle and Poisson property. (English summary) **97d:31006**
Conze, J.-P. (*with* Raugi, A.) Fonctions propres pour un opérateur de transition. (French summary) [Eigenfunctions for a transition operator] **97g:60097**
Jacob, Niels Various approaches to the Dirichlet problem for non-local operators satisfying the positive maximum principle. (English summary) **97e:35211**
Le Trong Luc On balayage principles by inverse source problems. (English summary) **97b:35192**
Raugi, A. *see* **Conze, J.-P., 97g:60097**
Ren, Jiagang Some aspects of quasi-sure analysis. (English and Chinese summaries)
Sweezy, Caroline Absolute continuity for elliptic-caloric measures. (English summary) **97h:35036**
Yun, Yong Sik A quasi-sure flow property and the equivalence of capacities for differential equations on the Wiener space. (English summary) **97j:60102**

31D05 Axiomatic potential theory

Bendikov, A. D. (*with* Saloff-Coste, Laurent) Théorie du potentiel sur les produits infinis et les groupes localement compacts. (English and French summaries) [Potential theory on infinite products and locally compact groups] **97m:31005**
Ben Salah, M. (*with* Yahiaoui, M. S.) Subordination des résolvantes. (French summary) [Subordination of resolvents] **97e:31007**
Beznea, Lucian (*with* Boboc, Nicu) On the integral representation for excessive measures. (English summary) **97k:31012**
— (*with* Boboc, Nicu) Quasi-boundedness and subtractivity; applications to excessive measures. (English summary) **97k:31013**
Bezzarga, Mounir (*with* Bucur, Gheorghe) Duality for semi-dynamical systems. (English summary) **97k:31014**
Bliedtner, Jürgen Approximation by harmonic functions. (English summary) **97g:31014**
Boboc, Nicu (*with* Bucur, Gheorghe) Excessive and supermedian functions with respect to subordination resolvents of kernels. **97a:31006**
— (*with* Bucur, Gheorghe) Arithmetic and potential theory. (English summary) **97k:31015**
— *see also* **Beznea, Lucian, 97k:31012** *and* **97k:31013**
Bucur, Gheorghe *see* **Boboc, Nicu, 97a:31006**; **Bezzarga, Mounir, 97k:31014** *and* **Boboc, Nicu, 97k:31015**

Knöpfel, Holger The restricted mean value property for sub-Laplacians.
Maâgli, Habib Perturbation et mesures excessives. [Perturbation and excessive measures] **97j:31013**
— Perturbation des résolvantes et représentation des mesures excessives. (English and French summaries) [Perturbation of resolvents and representation of excessive measures] **97d:31012**
Nakai, Mitsuru Brelot spaces of Schrödinger equations. **97d:31013**
— Monotone discontinuity of lattice operations in a quasilinear harmonic space. (English summary) **97e:31008**
Popa, Eugen (*with* Popa, Liliana) An example in the axiomatic potential theory: the semi-dynamical systems. **97c:31017**
— (*with* Popa, Liliana) Tensor product of standard H-cones and duality. (English summary) **97f:31029**
Popa, Liliana The algebra of the locally bounded elements in a standard H-cone. **97b:31014**
— *see also* **Popa, Eugen, 97c:31017** *and* **97f:31029**
Qiu, Shu Xi Harmonic mean measures on the boundary of a compact region. (Chinese. English and Chinese summaries) **97m:31006**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 97m:31005**
Yahiaoui, M. S. *see* **Ben Salah, M., 97e:31007**
Zhang, Yi Ping Lebesgue decomposition of potentials. (Chinese. English and Chinese summaries) **97f:31030**

Items with secondary classifications in 31D05

Bliedtner, Jürgen (*with* Loeb, Peter A.) Generalized radial limits associated with representing measures. **97c:31016**
Boukricha, A. (*with* Hansen, Wolfhard) Martin boundary for Schrödinger operators with singularity. **97b:31003**
Cator, E. A. Potential theory of Monge-Ampère on a Banach space. Minimum principle and Poisson property. (English summary) **97d:31006**
Getoor, R. K. (*with* Sharpe, M. J.) Inverse subordination of excessive functions. **97b:60124**
Hansen, Wolfhard *see* **Boukricha, A., 97b:31003**
Loeb, Peter A. *see* **Bliedtner, Jürgen, 97c:31016**
Roth, Walter Integral type linear functionals on ordered cones. (English summary) **97i:46015**
Sharpe, M. J. *see* **Getoor, R. K., 97b:60124**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32–01 Instructional exposition (textbooks, tutorial papers, etc.)

Isaev, Alexander V. Complex variables: single v several. (English summary) (*see* **97a:00040**)
Mellon, Pauline ★ An introduction to several complex variables. **97c:32001**

32–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 32–02

Greene, Brian R. (*with* Ooguri, Hirosi) Geometry and quantum field theory: a brief introduction. (English summary) **97j:81003**
Ooguri, Hirosi *see* **Greene, Brian R., 97j:81003**
Upmeier, Harald ★ Toeplitz operators and index theory in several complex variables. (English summary) **97f:47022**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

Schumacher, Georg Über die Entwicklung der komplexen Analysis in Deutschland vom Ausgang des 19. Jahrhunderts bis zum Anfang der siebziger Jahre. [On the evolution of complex analysis in Germany from the end of the 19th century to the beginning of the 1970s] **97g:01025**

32–06 Proceedings, conferences, collections, etc.

Items listed otherwise than by author

Symposium:
Topology of Holomorphic Dynamical Systems and Related Topics ★ Fukuso kaisekiteki rikigakkei no toporojii to sono shūhen. [Topology of holomorphic dynamical systems and related topics] **97k:32001**
Topology of holomorphic dynamical systems and related topics ★ Fukuso kaisekiteki rikigakkei no toporojii to sono shūhen. [Topology of holomorphic dynamical systems and related topics] **97k:32001**

Items with secondary classifications in 32–06

(de Bartolomeis, Paolo) *see* **Manifolds and geometry, 97c:53005**
(Braaksma, B. L. J.) *see* **Stokes phenomenon and Hilbert's 16th problem, 97k:34002**
(Calabi, Eugenio) *see* **Manifolds and geometry, 97c:53005**
(Cordaro, Paulo D.) *see* **Multidimensional complex analysis and partial differential equations, 97k:00025**
(Deville, Robert) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Esterle, J.) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Gava, E.) *see* ***S*-duality and mirror symmetry, 97d:81006**
(Greene, Brian R.) *see* **Mirror symmetry, 97d:00024**
(Immink, G. K.) *see* **Stokes phenomenon and Hilbert's 16th problem, 97k:34002**
(Jacobowitz, Howard) *see* **Multidimensional complex analysis and partial differential equations, 97k:00025**
(Maltese, George) *see* **Series of the Mathematical Institute of the University of Münster. Series 3, 97a:00026**
(Mshimba, Ali Seif) *see* **Functional analytic methods in complex analysis and applications to partial differential equations, 97d:00020**
(Narain, K. S.) *see* ***S*-duality and mirror symmetry, 97d:81006**
(Petkov, Vesselin M.) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(van der Put, Marius) *see* **Stokes phenomenon and Hilbert's 16th problem, 97k:34002**
(Sebbar, A.) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**
(Treves, François) *see* **Multidimensional complex analysis and partial differential equations, 97k:00025**
(Tricerri, Franco) *see* **Manifolds and geometry, 97c:53005**
(Tutschke, Wolfgang) *see* **Functional analytic methods in complex analysis and applications to partial differential equations, 97d:00020**
(Vafa, Cumrun) *see* ***S*-duality and mirror symmetry, 97d:81006**
(Vesentini, Edoardo) *see* **Manifolds and geometry, 97c:53005**
(Yau, Shing-Tung) *see* **Mirror symmetry, 97d:00024**
(Yger, Alain) *see* **Complex analysis, harmonic analysis and applications, 97b:00016**

Items listed otherwise than by author

Birthday:
Trèves, François ★ Multidimensional complex analysis and partial differential equations. **97k:00025**
Bordeaux ★ Complex analysis, harmonic analysis and applications. **97b:00016**
Complex analysis, harmonic analysis and applications ★ Complex analysis, harmonic analysis and applications. **97b:00016**
Conference:
Complex Analysis ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00035**
— ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00036**
— ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00037**
Conference: (*cont'd.*)
Complex Analysis, Harmonic Analysis and Applications ★ Complex analysis, harmonic analysis and applications. **97b:00016**
Differential Geometry ★ Manifolds and geometry. **97c:53005**
Multidimensional Complex Analysis and Partial Differential Equations ★ Multidimensional complex analysis and partial differential equations. **97k:00025**
***S*-Duality and Mirror Symmetry** ★ *S*-duality and mirror symmetry. **97d:81006**
Contemporary Mathematics ★ Multidimensional complex analysis and partial differential equations. **97k:00025**
Festschrift:
Trèves, François ★ Multidimensional complex analysis and partial differential equations. **97k:00025**
Functional analytic methods in complex analysis and applications to partial differential equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Groningen ★ The Stokes phenomenon and Hilbert's 16th problem. **97k:34002**
Manifolds and geometry ★ Manifolds and geometry. **97c:53005**
Mirror symmetry ★ Mirror symmetry. II. **97d:00024**
Multidimensional complex analysis and partial differential equations ★ Multidimensional complex analysis and partial differential equations. **97k:00025**
Pisa ★ Manifolds and geometry. **97c:53005**
***S*-duality and mirror symmetry** ★ *S*-duality and mirror symmetry. **97d:81006**
São Carlos ★ Multidimensional complex analysis and partial differential equations. **97k:00025**
Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 17. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 17] **97a:00026**
Seminar:
Complex Analysis ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00035**
— ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00036**
— ★ Travaux de la Conférence Internationale d'Analyse Complexe et du 7e Séminaire Roumano-Finlandais. [Works of the International Conference on Complex Analysis and of the Seventh Romanian-Finnish Seminar] **97c:00037**
Series of the Mathematical Institute of the University of Münster. Series 3 ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 17. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 17] **97a:00026**
Stokes phenomenon and Hilbert's 16th problem ★ The Stokes phenomenon and Hilbert's 16th problem. **97k:34002**
Symposia Mathematica ★ Manifolds and geometry. **97c:53005**
Trieste ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
— ★ *S*-duality and mirror symmetry. **97d:81006**
Workshop:
Functional Analytic Methods in Complex Analysis and Applications to Partial Differential Equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Stokes Phenomenon and Hilbert's 16th Problem ★ The Stokes phenomenon and Hilbert's 16th problem. **97k:34002**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Lê Hai Khôi Holomorphic Dirichlet series in several variables. **97c:32002**
Vijai, Vinita On the order and type of an entire function of several complex variables represented by multiple Dirichlet series. (English summary) **97b:32001**
Yu, Xiu Yun Infinite product expressions for analytic functions of two variables. (Chinese. English and Chinese summaries) **97k:32002**

Items with secondary classifications in 32A05

Fenton, P. C. Wiman-Valiron theory in two variables. (English summary) **97b:32005**
Makarov, V. Yu. Characteristics of the sum of a multidimensional series. (English summary) **97m:32006**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Dini, G. (*with* Primicerio, Angela Selvaggi) Localization principle for a class of Reinhardt domains. (English summary) **97c:32003**
Fu, Siqi (*with* Isaev, Alexander V.; Krantz, Steven G.) Finite type conditions on Reinhardt domains. (English summary) **97m:32001**
Isaev, Alexander V. *see* **Fu, Siqi; et al., 97m:32001**
Kodama, Akio A characterization of certain domains with good boundary points in the sense of Greene-Krantz. III. **97i:32001**
Krantz, Steven G. *see* **Fu, Siqi; et al., 97m:32001**
Primicerio, Angela Selvaggi *see* **Dini, G., 97c:32003**

Items with secondary classifications in 32A07

Berteloot, F. (*with* Pinchuk, S. I.) Proper holomorphic mappings between bounded complete Reinhardt domains in $\mathbf{C}^2$. **97a:32027**
— (*with* Lœb, J. J.) Holomorphic equivalence between basins of attraction in $\mathbf{C}^2$. (English summary) **97f:32037**

Chaouech, A. Une remarque sur un résultat de Y. Pan. (English and French summaries) [A remark on a result of Y. Pan] **97g:32030**
Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) On the noncompensation of singularities of functions that are holomorphic in tubular cones. (Russian) **97d:32002**
Francsics, Gábor (*with* Hanges, Nicholas) The Bergman kernel of complex ovals and multivariable hypergeometric functions. (English summary) **97m:32039**
Fu, Siqi (*with* Isaev, Alexander V.; Krantz, Steven G.) Reinhardt domains with non-compact automorphism groups. (English summary) **97c:32043**
— (*with* Isaev, Alexander V.; Krantz, Steven G.) Examples of domains with non-compact automorphism groups. (English summary) **97f:32047**
Gong, Sheng *see* **Zheng, Xue An, 97b:32030a** *and* **97b:32030b**
Hanges, Nicholas *see* **Francsics, Gábor, 97m:32039**
Huang, Xiao Jun (*with* Pan, Yifei) Proper holomorphic self-mappings of Hartogs domains in $\mathbf{C}^n$. (English summary) **97j:32018**
Hyb, Wojciech Bergman function, Genchev transform and L^2-angles for multidimensional tubes. **97i:32030**
Isaev, Alexander V. *see* **Fu, Siqi; et al., 97c:32043** *and* **97f:32047**
Jarnicki, Marek (*with* Pflug, Peter) On the extended tube conjecture. **97k:32018**
Krantz, Steven G. *see* **Fu, Siqi; et al., 97c:32043** *and* **97f:32047**
Landucci, Mario (*with* Spiro, Andrea F.) On pseudoconvexity of Reinhardt domains. (Italian summary) **97i:32015**
— (*with* Spiro, Andrea F.) Proper holomorphic maps between complete Reinhardt domains in $\mathbf{C}^2$. (English summary) **97a:32028**
Løw, J. J. *see* **Berteloot, F., 97f:32037**
Myszewski, Jan M. On the structure of infinitesimal group of holomorphic automorphisms of an $(n-1)$-circular domain in $\mathbf{C}^n$. (English and Polish summaries) **97h:32057**
Pan, Yifei *see* **Huang, Xiao Jun, 97j:32018**
Pflug, Peter *see* **Jarnicki, Marek, 97k:32018**
Pinchuk, S. I. *see* **Berteloot, F., 97a:32027**
Spiro, Andrea F. *see* **Landucci, Mario, 97a:32028** *and* **97i:32015**
Tong, Wu Bergman kernel functions and the full group of holomorphic automorphisms of a class of Reinhardt domains. (Chinese. English and Chinese summaries) **97f:32027**
Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 97d:32002**
Zheng, Xue An (*with* Gong, Sheng) Reinhardt domains. II. **97b:32030b**
— (*with* Gong, Sheng) On Reinhardt domains. II. (Chinese) **97b:32030a**
Znamenskaya, L. N. *see* **Znamenskiĭ, S. V., 97d:32026**
Znamenskiĭ, S. V. (*with* Znamenskaya, L. N.) Spiral connectivity of sections and projections of C-convex sets. (Russian. Russian summary) **97d:32026**

32A10 Holomorphic functions

Charpentier, Philippe (*with* Ortega-Cerdà, Joaquim) On the zero sets of bounded holomorphic functions in the bidisc. (English summary) **97k:32003**
Fichera, Gaetano Conditions for holomorphy of L^1_{loc} functions. (English summary) **97g:32001**
— Unification of global and local existence theorems for holomorphic functions of several complex variables. (English summary) **97k:32004**
Guliev, V. S. (*with* Lizorkin, P. I.) Classes of holomorphic and harmonic functions in a polydisk in connection with their boundary values. (Russian) **97e:32001**
Lizorkin, P. I. *see* **Guliev, V. S., 97e:32001**
Ortega-Cerdà, Joaquim *see* **Charpentier, Philippe, 97k:32003**

Items with secondary classifications in 32A10

Bruna, Joaquim (*with* Massaneda, Xavier) Zero sets of holomorphic functions in the unit ball with slow growth. (English summary) **97f:32006**
Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) On the noncompensation of singularities of functions that are holomorphic in tubular cones. (Russian) **97d:32002**
Kytmanov, A. M. (*with* Yakimenko, M. Sh.) Errata: "On a criterion for the existence of a holomorphic continuation of functions into $\mathbf{C}^2$" [Izv. Vyssh. Uchebn. Zaved. Mat. **1994**, no. 8, 39–45; MR 96a:32024]. **Massaneda, Xavier** *see* **Bruna, Joaquim, 97f:32006**
Ronkin, L. I. (*with* Russakovskiĭ, A. M.) Entire periodic functions with plane zeros. (English summary) **97g:32002**
Russakovskiĭ, A. M. *see* **Ronkin, L. I., 97g:32002**
Yakimenko, M. Sh. *see* **Kytmanov, A. M.**
Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 97d:32002**

32A15 Entire functions

Bezivin, Jean-Paul (*with* Gramain, François) Solutions entières d'un système d'équations aux différences. II. (English and French summaries) [Entire solutions of a system of difference equations. II] **97f:32002**
Gramain, François *see* **Bezivin, Jean-Paul, 97f:32002**
Norvidas, Saulius Approximation of entire functions by exponential polynomials. (Russian. Lithuanian summary) **97b:32002**
Ronkin, L. I. (*with* Russakovskiĭ, A. M.) Entire periodic functions with plane zeros. (English summary) **97g:32002**
Russakovskiĭ, A. M. *see* **Ronkin, L. I., 97g:32002**
Vijai, Vinita On the mean values of an entire function in several complex variables represented by multiple Dirichlet series. **97m:32002**
Yulmukhametov, R. S. Decomposition of entire functions into the product of two functions of equivalent growth. (Russian. Russian summary) **97m:32003**

Items with secondary classifications in 32A15

De Fabritiis, Chiara Actions of linear groups on Fock spaces. **97c:46033**
Halvarsson, Stefan Growth properties of entire functions depending on a parameter. (English summary) **97g:32003**
— A geometric interpretation of the relative order between entire functions. **97f:32002**
Li, Bao Qin (*with* Taylor, B. Alan) On the Bézout problem and area of interpolating varieties in $\mathbf{C}^n$. (English summary) **97h:32002**
Taylor, B. Alan *see* **Li, Bao Qin, 97h:32002**

32A17 Special families of functions (e.g. normal families)

Godula, Janusz (*with* Starkov, V. V.) A regularity theorem for linearly invariant families of functions in a polydisk. (Russian) **97c:32004**
Joseph, James E. (*with* Kwack, Myung H.) Some classical theorems and families of normal maps in several complex variables. (English summary) **97d:32001**
Kwack, Myung H. *see* **Joseph, James E., 97d:32001**
Starkov, V. V. *see* **Godula, Janusz, 97c:32004**

Items with secondary classifications in 32A17

Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) On the noncompensation of singularities of functions that are holomorphic in tubular cones. (Russian) **97d:32002**
Musin, I. Kh. *see* **Napalkov, V. V., 97b:32006**
Napalkov, V. V. (*with* Musin, I. Kh.) On a functional equation in ρ-convex domains. (Russian) **97b:32006**
Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 97d:32002**

32A20 Meromorphic functions

Gao, Shi-An Some results on the complex oscillation for higher order homogeneous linear differential equations. (English summary) **97h:32001**
Tu, Zhen Han A unicity theorem for meromorphic functions on $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **97m:32004**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Berenstein, Carlos A. (*with* Chang, Der-Chen; Li, Bao Qin) On the shared values of entire functions and their partial differential polynomials in $\mathbf{C}^n$. (English summary) **97f:32001**
Cassou-Noguès, Pierrette (*with* Płoski, Arkadiusz) Un théorème des zéros effectif. (English summary) [An effective Nullstellensatz] **97m:32005**
Chang, Der-Chen *see* **Berenstein, Carlos A.; et al., 97f:32001**
Drozhzhinov, Yu. N. (*with* Zav′yalov, B. I.) On the noncompensation of singularities of functions that are holomorphic in tubular cones. (Russian) **97d:32002**
Halvarsson, Stefan Growth properties of entire functions depending on a parameter. (English summary) **97g:32003**
— A geometric interpretation of the relative order between entire functions. **97f:32002**
Hu, Pei-Chu (*with* Yang, Chung-Chun) Uniqueness of meromorphic functions on $\mathbf{C}^m$. (English summary) **97g:32004**
Li, Bao Qin (*with* Taylor, B. Alan) On the Bézout problem and area of interpolating varieties in $\mathbf{C}^n$. (English summary) **97h:32002**
— *see also* **Berenstein, Carlos A.; et al., 97f:32001**
Makarov, V. Yu. Characteristics of the sum of a multidimensional series. (English summary) **97m:32006**
Płoski, Arkadiusz *see* **Cassou-Noguès, Pierrette, 97m:32005**
Taylor, B. Alan *see* **Li, Bao Qin, 97h:32002**
Yang, Chung-Chun *see* **Hu, Pei-Chu, 97g:32004**
Zav′yalov, B. I. *see* **Drozhzhinov, Yu. N., 97d:32002**

Items with secondary classifications in 32A22

Berenstein, Carlos A. (*with* Chang, Der-Chen; Li, Bao Qin) Interpolating varieties and counting functions in $\mathbf{C}^n$. **97a:32007**
Chang, Der-Chen *see* **Berenstein, Carlos A.; et al., 97a:32007**
Fujimoto, Hirotaka Nevanlinna theory for minimal surfaces of parabolic type. **97c:53012**
Godula, Janusz (*with* Starkov, V. V.) A regularity theorem for linearly invariant families of functions in a polydisk. (Russian) **97c:32004**
Li, Bao Qin *see* **Berenstein, Carlos A.; et al., 97a:32007**
Russakovskiĭ, A. M. Approximation by entire functions and Arakelyan-type examples for moving targets. **97f:32035**
Starkov, V. V. *see* **Godula, Janusz, 97c:32004**
Yang, Chung-Chun Some recent developments in the factorization and uniqueness of meromorphic functions. **97b:30046**
Ye, Zhuan A sharp form of Nevanlinna's second main theorem of several complex variables. **97c:32035**
Yulmukhametov, R. S. Decomposition of entire functions into the product of two functions of equivalent growth. (Russian. Russian summary) **97m:32003**

32A25 Integral representation

Adachi, Kenzō (*with* Cho, Hong Rae) Some Lipschitz regularity of the Cauchy transform on a convex domain in $\mathbf{C}^2$ with real analytic boundary. (English summary) **97m:32007**
Alzenberg, L. A. (*with* Karepov, O. V.; Shlapunov, A. A.) On the property of the uniqueness and the existence of a limit in the Carleman formulas. (Russian) **97b:32003**
Andreadis, T. Solution of $\overline{\partial}$ equation with compactly supported data. (English and Italian summaries) **97m:32008**
(Boas, Harold P.) *see* **Kytmanov, A. M., 97f:32004**
Chen, Shu Jin A global Leray-Norguet formula for differential forms of type (p,q). (Chinese. Chinese summary) **97h:32003**
— The Koppelman-Leray formula and its application on complex submanifold. (English summary) **97f:32003**
Chen, Ten Ging (*with* Lin, Jin Long) Integral representation of solution for $\overline{\partial}u = f$ and its uniform estimate on ellipsoids. (English summary) **97d:32003**
Cho, Hong Rae *see* **Adachi, Kenzō, 97m:32007**
Fischer, Bert Kernels of Martinelli-Bochner type on hypersurfaces. **97i:32003**
Karepov, O. V. *see* **Alzenberg, L. A.; et al., 97b:32003**
Kytmanov, A. M. ★ The Bochner-Martinelli integral and its applications. (English summary) **97f:32004**
Lin, Jin Long *see* **Chen, Ten Ging, 97d:32003**

Lin, Liang Yu The boundary behavior of integrals of Cauchy-Fantappiè type on a closed, piecewise smooth manifold. (Chinese. English and Chinese summaries) **97a:32001**
— An extension of the Bergman-Weil integration formula. (Chinese. Chinese summary) **97m:32009**
— (*with* Xu, Zhong Yi) A Leray-Norguet formula with locally holomorphic kernel on piecewise smooth pseudoconvex domains in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **97i:32004**
— Bochner-Martinelli formulas with discrete kernels. (Chinese)
— A Leray-Norguet formula with locally holomorphic kernel on bounded domains and its applications. (Chinese. English and Chinese summaries) **97g:32005**
— *see also* **Xu, Zhong Yi, 97k:32005**
Ma, Zhong Tai The local C^k-boundary regularity of integral solution operators of the $\overline{\partial}$-equations. (English and Chinese summaries) **97m:32010**
Rubanovich, S. Holomorphic integrals. (English summary) **97e:32005**
Shiapunov, A. A. *see* **Aizenberg, L. A.; et al., 97b:32003**
Xu, Zhong Yi (*with* Lin, Liang Yu) The Hilbert boundary value problem on the topological product of cylindrical and half-plane domains. (Chinese. English and Chinese summaries) **97k:32005**
— *see also* **Lin, Liang Yu, 97i:32004** *and* **Yao, Zong Yuan, 97i:32005**
Yan, Rong Mu (*with* Ye, Fang Cao) The $(0,1)$-Green form in the n-dimensional complex projective space $\mathbf{CP}^n$. (Chinese. English summary)
Yao, Zong Yuan (*with* Xu, Zhong Yi) An integral formula with holomorphic kernel on bounded domains in $\mathbf{C}^n$ with piecewise smooth boundary. (Chinese. English and Chinese summaries) **97i:32005**
Ye, Fang Cao *see* **Yan, Rong Mu**
Zhong, Tong De Koppelman-Leray formula on complex manifolds. (English summary) **97j:32001**
— The Koppelman-Leray-Norguet formula on complex manifolds and its applications. (Chinese. Chinese summary) **97a:32002**
— Koppelman-Leray-Norguet formula on complex manifolds and applications. (English summary) **97k:32006**

Items with secondary classifications in 32A25

Andersson, Mats E. L. A division problem for $\overline{\partial}_b$-closed forms. (English summary) **97i:32016**
Bonneau, Pierre (*with* Cumenge, Anne) L'équation de Cauchy-Riemann dans certains croissants de $\mathbf{C}^n$. (English and French summaries) [The Cauchy-Riemann equation in some lunes in $\mathbf{C}^n$] **97j:32011**
Charpentier, Philippe (*with* Ortega-Cerdà, Joaquim) On the zero sets of bounded holomorphic functions in the bidisc. (English summary) **97k:32003**
Cumenge, Anne *see* **Bonneau, Pierre, 97j:32011**
Dickenstein, Alicia (*with* Gay, Roger[1]; Sessa, Carmen; Yger, Alain) Analytic functionals annihilated by ideals. (English summary) **97f:32010**
Gay, Roger[1] *see* **Dickenstein, Alicia; et al., 97f:32010**
Ortega-Cerdà, Joaquim *see* **Charpentier, Philippe, 97k:32003**
Sessa, Carmen *see* **Dickenstein, Alicia; et al., 97f:32010**
Yger, Alain *see* **Dickenstein, Alicia; et al., 97f:32010**
Yin, Cheng Yuan A definition of a kind of singular integral on a complex hypersphere. (Chinese. English and Chinese summaries) **97f:42033**
Zhong, Tong De Lipschitz $\frac{1}{2}$-estimates for the $\overline{\partial}$ operator on Stein manifolds. (Chinese. English and Chinese summaries) **97i:32017**

32A27 Local theory of residues [see also 32C30]

Berenstein, Carlos A. (*with* Yger, Alain) Multidimensional residues and complexity problems. (English summary) **97k:32007**
Cattani, Eduardo H. (*with* Dickenstein, Alicia; Sturmfels, Bernd) Computing multidimensional residues. **97i:32006**
Dickenstein, Alicia *see* **Cattani, Eduardo H.; et al., 97i:32006**
Ofman, Salomon Résidus mèromorphes et résidus de Martinelli. (English summary) [Meromorphic residues and Martinelli residues] **97b:32004**
Passare, Mikael (*with* Tsikh, A. K.) Defining the residue of a complete intersection. **97j:32002**
Rigat, Stéphane Solution explicite en termes de courants résiduels de systèmes différentiels. (English and French summaries) [Explicit solution in terms of residue currents of differential systems] **97k:32008**
Sturmfels, Bernd *see* **Cattani, Eduardo H.; et al., 97i:32006**
Tsikh, A. K. *see* **Passare, Mikael, 97j:32002**
Yger, Alain *see* **Berenstein, Carlos A., 97k:32007**

Items with secondary classifications in 32A27

Boudiaf, Djilali Interpretation of the composed residue homomorphisms by the residual currents. **97j:32003**
Dickenstein, Alicia (*with* Gay, Roger[1]; Sessa, Carmen; Yger, Alain) Analytic functionals annihilated by ideals. (English summary) **97f:32010**
Gay, Roger[1] *see* **Dickenstein, Alicia; et al., 97f:32010**
Rubanovich, S. Holomorphic integrals. (English summary) **97e:32005**
Sessa, Carmen *see* **Dickenstein, Alicia; et al., 97f:32010**
Yger, Alain *see* **Dickenstein, Alicia; et al., 97f:32010**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

Fenton, P. C. Wiman-Valiron theory in two variables. (English summary) **97b:32005**
Sadullaev, A. (*with* Shaimkulov, B. A.) On the F. and M. Riesz theorem. (Russian. English and Uzbek summaries) **97a:32003**
Shaimkulov, B. A. *see* **Sadullaev, A., 97a:32003**
Wang, Li Ping Boundary value problems for analytic functions on a product of annuli. (Chinese. English and Chinese summaries) **97f:32005**

Items with secondary classifications in 32A30

De Fabritiis, Chiara Commuting holomorphic functions and hyperbolic automorphisms. (English summary) **97b:32023**
FitzGerald, C. H. (*with* Gong, Sheng) The locally biholomorphic Bloch and Marden constants in several complex variables. (English summary) **97j:32017**
Gong, Sheng *see* **FitzGerald, C. H., 97j:32017**
Graham, Ian (*with* Varolin, Dror) Bloch constants in one and several variables. (English summary) **97f:30006**
Guliev, V. S. (*with* Lizorkin, P. I.) Classes of holomorphic and harmonic functions in a polydisk in connection with their boundary values. (Russian) **97e:32001**
Hu, Jicheng Boundary behaviour of Cauchy singular integrals. (English and Chinese summaries) **97d:30051**
Hu, Zhang Jian Admissible limits of Bloch functions on bounded strongly pseudoconvex domains. (English summary) **97d:32006**
Kohr, Gabriela (*with* Pintea, Cornel) An extension of Jack's-Miller's-Mocanu's lemma for holomorphic mappings defined on some domains in $\mathbf{C}^n$. (English summary) **97i:32027**
Lê Hai Khôi Holomorphic Dirichlet series in several variables. **97e:32002**
Lizorkin, P. I. *see* **Guliev, V. S., 97e:32001**
Melek, Soad Zaky On basic sets of polynomials of two complex variables. (English and Arabic summaries) **97c:30004**
Pintea, Cornel *see* **Kohr, Gabriela, 97i:32027**
Tsurumi, Kazuyuki Radial growth of starlike holomorphic mappings in the unit ball in $\mathbf{C}^n$. (Japanese) (*see* **97i:00016**)
Varolin, Dror *see* **Graham, Ian, 97f:30006**
Vijai, Vinita On the order and type of an entire function of several complex variables represented by multiple Dirichlet series. (English summary) **97b:32001**
— On the mean values of an entire function in several complex variables represented by multiple Dirichlet series. **97m:32002**

32A35 H^p-spaces [see also 32M15, 42B30, 43A85, 46J15]

Cascante, Carme (*with* Ortega, Joaquín Ma.) Carleson measures on spaces of Hardy-Sobolev type. (English summary) **97c:32006**
Inoue, Toru Automorphism invariant inner product in Hilbert spaces of holomorphic functions on the unit ball of $\mathbf{C}^n$. **97a:32004**
Nakazi, Takahiko An outer function and several important functions in two variables. **97d:32004**
Ortega, Joaquín Ma. *see* **Cascante, Carme, 97c:32006**
Shi, Jihuai D^p spaces on bounded symmetric domains of $\mathbf{C}^n$. (English summary) **97m:32011**
Yoo, Yoon Jae Area integral associated with singular measures on the unit sphere on $\mathbf{C}^n$. **97c:32007**

Items with secondary classifications in 32A35

Andersson, Mats E. L. (*with* Carlsson, Hasse) H^p-estimates of holomorphic division formulas. (English summary) **97e:32002**
Cao, Guang Fu (*with* Sun, Shun Hua) Local methods of Toeplitz operators on $H^2(S)$. (English summary) **97j:47039**
Carlsson, Hasse *see* **Andersson, Mats E. L., 97e:32002**
Cascante, Carme (*with* Ortega, Joaquín Ma.) A characterisation of tangential exceptional sets for H^p_α, $\alpha p = n$. (English summary) **97f:32008**
Cima, Joseph A. (*with* Stessin, Michael) On the recovery of analytic functions. (English summary) **97g:30035**
Haslinger, Friedrich Szegő kernels for certain unbounded domains in $\mathbf{C}^2$. (English summary) **97f:32026**
Jevtić, Miroljub Embedding derivatives of $\mathcal{M}$-harmonic Hardy spaces $\mathcal{H}^p$ into Lebesgue spaces, $0 < p < 2$. (English summary) **97e:46021**
Korenblum, Boris (*with* McCarthy, John E.) The range of Toeplitz operators on the ball. **97i:47045**
McCarthy, John E. *see* **Korenblum, Boris, 97i:47045**
Nakazi, Takahiko Slice maps and multipliers of invariant subspaces. (English summary) **97f:46085**
Nawrocki, Marek Köthe sequence space representations of some weighted algebras of holomorphic functions. (English summary) **97k:46062**
Ortega, Joaquín Ma. *see* **Cascante, Carme, 97f:32008**
Stessin, Michael *see* **Cima, Joseph A., 97g:30035**
Sun, Shun Hua (*with* Zhong, Chang Yong) A criterion for the solvability of corona problems in higher dimensions. (Chinese. English and Chinese summaries) **97m:46087**
— *see also* **Cao, Guang Fu, 97j:47039**
Wolff, Roland Spectra of analytic Toeplitz tuples on Hardy spaces. **97j:47010**
Zhong, Chang Yong *see* **Sun, Shun Hua, 97m:46087**

32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [see also 46Exx]

Andersson, Mats E. L. (*with* Carlsson, Hasse) H^p-estimates of holomorphic division formulas. (English summary) **97e:32002**
Bruna, Joaquim (*with* Massaneda, Xavier) Zero sets of holomorphic functions in the unit ball with slow growth. (English summary) **97f:32006**
— A construction of outer functions along curves on the sphere in $\mathbf{C}^n$. (English summary) **97e:32003**
Carlsson, Hasse *see* **Andersson, Mats E. L., 97e:32002**
Choa, Jun Soo A property of series of holomorphic homogeneous polynomials with Hadamard gaps. (English summary) **97c:32008**
— Some properties of analytic functions on the unit ball with Hadamard gaps. (English summary) **97c:32009**

Choe, Boo Rim (*with* Rim, Kyung Soo) Fractional derivatives of Bloch functions, growth rate, and interpolation. **97f:32007**
Fàbrega, Joan *see* **Ortega, Joaquín Ma., 97k:32009**
Jevtić, Miroljub On $\mathscr{M}$-harmonic space $\mathscr{D}_p^s$. (English summary) **97c:32010**
Kang, Hyeonbae (*with* Koo, Hyungwoon) A note on BMOA and VMOA on the unit ball. (English summary) **97d:32005**
Koo, Hyungwoon *see* **Kang, Hyeonbae, 97d:32005**
Massaneda, Xavier *see* **Bruna, Joaquim, 97f:32006**
Musin, I. Kh. *see* **Napalkov, V. V., 97b:32006**
Napalkov, V. V. (*with* Musin, I. Kh.) On a functional equation in p-convex domains. (Russian) **97b:32006**
Ortega, Joaquín Ma. (*with* Fàbrega, Joan) Pointwise multipliers and corona type decomposition in BMOA. (English and French summaries) **97k:32009**
Ouyang, Caiheng α-Carleson measure and Bloch functions on bounded symmetric domains of $\mathbf{C}^n$. (English summary) **97b:32007**
Rim, Kyung Soo *see* **Choe, Boo Rim, 97f:32007**

Items with secondary classifications in 32A37

Arutyunyan, A. V. *see* **Shamoyan, F. A., 97d:46029**
Carmichael, Richard D. Representation of holomorphic functions in tubes and boundary values. (English summary) **97f:46060**
— (*with* Pilipović, Stevan) Elements of $\mathscr{D}_L'^*(\mathbf{R}^n)$ as boundary values. **97f:46061**
Chen, Lang On weak compactness of composition operators on Bergman spaces of several complex variables. (English summary) **97i:47055**
Dubinskiĭ, Yu. A. On the well-posedness of the Cauchy problem in a complex domain. (Russian) **97c:35002**
Fàbrega, Joan *see* **Ortega, Joaquín Ma., 97d:46060**
Inoue, Toru Automorphism invariant inner product in Hilbert spaces of holomorphic functions on the unit ball of $\mathbf{C}^n$. **97a:32004**
Izuchi, Keiji (*with* Kasuga, Kazuhiro; Matsugu, Yasuo) Bourgain algebras of spaces of n-harmonic functions in the unit polydisk. (English summary) **97h:46086**
Jevtić, Miroljub A note on $\mathscr{M}$-harmonic Besov p-spaces. (English summary) **97h:46047**
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Krantz, Steven G. (*with* Li, Song-Ying) Factorization of functions in subspaces of L^1 and applications to the corona problem. (English summary) **97h:46089**
— (*with* Li, Song-Ying) Explicit solutions for the corona problem with Lipschitz data in the polydisc. (English summary) **97h:46088**
Lee, Young Joo Pluriharmonic symbols of commuting Toeplitz type operators. (English summary) **97f:47020**
Lê Hai Khôi Hilbert spaces of holomorphic Dirichlet series and applications to convolution equations. (English summary) **97m:46039**
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MacCluer, Barbara D. Fredholm composition operators. (English summary) **97c:47033**
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Ortega, Joaquín Ma. (*with* Fàbrega, Joan) Corona type decomposition in some Besov spaces. (English summary) **97d:46060**
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Ramírez de Arellano, Enrique *see* **Vasilevskiĭ, N. L.; et al., 97b:47022**
Shamoyan, F. A. (*with* Arutyunyan, A. V.) On anisotropic spaces of functions, holomorphic in the polydisk, that are smooth up to the boundary. (Russian. English and Russian summaries) **97d:46029**
Symesak, F. Décomposition atomique des espaces de Bergman. (English summary) [Atomic decomposition of Bergman spaces] **97j:46020**
Trujillo Codorniú, Rafael A. *see* **Vasilevskiĭ, N. L.; et al., 97b:47022**
Vasilevskiĭ, N. L. (*with* Kisil', Vladimir V.; Ramírez de Arellano, Enrique; Trujillo Codorniú, Rafael A.) Toeplitz operators with discontinuous presymbols in the Fock space. (Russian) **97b:47022**
Wulan, Hasi Mixed-norm spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **97h:46033**
Ye, Shan Li The BMOA space and the weighted Bergman spaces for Gleason's problem in an n-ball. (Chinese. English and Chinese summaries) **97k:46030**
Zheng, De Chao Semi-commutators of Toeplitz operators on the Bergman space. (English summary) **97e:47039**

32A40 Boundary behavior

Cascante, Carme (*with* Ortega, Joaquín Ma.) A characterisation of tangential exceptional sets for H_α^p, $\alpha p = n$. (English summary) **97f:32008**
Dzhuraev, A. D. On Riemann-Hilbert boundary problem in several complex variables. (English summary) **97i:32007**
Hu, Zhang Jian Admissible limits of Bloch functions on bounded strongly pseudoconvex domains. (English summary) **97d:32006**
McNeal, Jeffery D. On large values of L^2 holomorphic functions. **97e:32004**
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Wang, Li Ping Connective boundary value problems for analytic functions of several complex variables in crisscross unbounded polycylindrical domains. (Chinese. English and Chinese summaries) **97g:32006**

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Carmichael, Richard D. Representation of holomorphic functions in tubes and boundary values. (English summary) **97f:46060**
— (*with* Pilipović, Stevan) Elements of $\mathscr{D}_L'^*(\mathbf{R}^n)$ as boundary values. **97f:46061**
Coupet, Bernard (*with* Sukhov, A. B.) On the boundary rigidity phenomenon for automorphisms of domains in $\mathbf{C}^n$. (English summary) **97a:32042**
Fichera, Gaetano Unification of global and local existence theorems for holomorphic functions of several complex variables. (English summary) **97k:32004**
Ma, Zhong Tai The local C^k-boundary regularity of integral solution operators of the $\overline{\partial}$-equations. (English and Chinese summaries) **97m:32010**
Matsushima, Toshio Image of a radius by a holomorphic function and map on the unit disk of $\mathbf{C}$. **97f:30047**
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Stoll, Manfred Boundary limits and non-integrability of $\mathscr{M}$-subharmonic functions in the unit ball of $\mathbf{C}^n$ ($n \geq 1$). (English summary) **97k:32024**
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Yamazaki, Susumu Singularities of the Bergman kernel for a two-dimensional pseudoconvex tube domain with corners. (English summary) **97a:32021**
Yoo, Yoon Jae Area integral associated with singular measures on the unit sphere on $\mathbf{C}^n$. **97c:32007**

32A45 Hyperfunctions [see also 46F15]

Avanissian, Vazgain Sur les fonctionnelles analytiques et la transformation G. Applications. (English summary) [Analytic functionals and the G-transform. Applications] **97h:32004**
Cheng, Yuan Fourier hyperfunctions, exponential functions and Avanissian-Gay transformations. (Japanese) (*see* **97c:00055**)
Ishimura, Ryuichi (*with* Okada, Jun-ichi) On the equivalence of the condition (S) of Kawai and the property of regular growth. **97h:32005**
Morimoto, Mitsuo Entire functions of exponential type on the complex sphere. **97e:32005**
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Ito, Yoshifumi Theory of Fourier microfunctions of several types. I. (English summary) **97b:46059**
Komatsu, Hikosaburo Multipliers for Laplace hyperfunctions—a justification of Heaviside's rules. (English summary) **97d:46046**
Morimoto, Mitsuo Cauchy transformation of analytic functionals on the sphere. **97d:46047**
— (*with* Fujita, Keiko) Harmonic functions and analytic functionals on complex light cones. (Japanese) (*see* **97c:00041**)
Supper, Raphaële Applications de la transformation G à une interpolation de fonctions harmoniques de type exponentiel. (French summary) [Applications of the G-transformation to an interpolation of harmonic functions of exponential type] **97h:31002**
Takiguchi, Takashi Radon transform of hyperfunctions and problems of support. (*see* **97c:00055**)
Yamazaki, Susumu Singularities of the Bergman kernel for a two-dimensional pseudoconvex tube domain with corners. (English summary) **97a:32021**
— Singularities of the Bergman kernel for a two-dimensional pseudoconvex tube domain with corners. **97f:32028**

32A99 None of the above, but in this section

Abanin, A. V. Modification of L. Hörmander's method in the problem of generators and its applications. (Russian) **97c:32011**

Items with secondary classifications in 32A99

Tonev, T. (*with* Yale, K.) Hankel type operators, Bourgain algebras, and isometries. (English summary) **97i:47051**
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32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebras and generalizations, preparation theorems

Liu, Luo Fei Germs of holomorphic functions on subsets of $\mathbf{C}^m$. (Chinese. English and Chinese summaries) **97k:32010**

32B10 Germs of analytic sets

Izumi, Shuzo Linear complementary inequalities for orders in analytic geometry (Łojasiewicz inequalities and strong approximation theorems). **97e:32006**

32B20 Semi-analytic sets and subanalytic sets [see also 14P15]

Andradas, C. *see* **Castilla, A., 97h:32006**
Bierstone, Edward (*with* Milman, Pierre D.; Pawłucki, Wiesław) Composite differentiable functions. **97k:32011**
Castilla, A. (*with* Andradas, C.) Connected components of global semianalytic subsets of 2-dimensional analytic manifolds. **97h:32006**
van den Dries, Lou (*with* Miller, Chris) Geometric categories and o-minimal structures. **97i:32008**
Gabrièlov, A. M. Complements of subanalytic sets and existential formulas for analytic functions. (English summary) **97h:32007**
Kwieciński, Michał (*with* Piękosz, Artur) S-cells are cells. (English summary) **97h:32008**
Miller, Chris *see* **van den Dries, Lou, 97i:32008**
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Piękosz, Artur *see* **Kwieciński, Michał, 97h:32008**

Items with secondary classifications in 32B20

Barone-Netto, Angelo (*with* Gorni, Gianluca; Zampieri, Gaetano) Local extrema of analytic functions. (English summary) **97j:26017**
Fefferman, Charles L. (*with* Narasimhan, Raghavan) Bernstein's inequality and the resolution of spaces of analytic functions. **97b:46026**

Gorni, Gianluca *see* **Barone-Netto, Angelo; et al., 97j:26017**
Izumi, Shuzo Linear complementary inequalities for orders in analytic geometry (Łojasiewicz inequalities and strong approximation theorems). **97e:32006**
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32B99 None of the above, but in this section

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Mawoussi, Yves Kodjo Saturation réelle à la Pham-Teissier d'un germe de courbe. (English and French summaries) [Real Pham-Teissier saturation of a germ of a curve] **97d:32047**
Ploski, Arkadiusz An inequality for polynomial mappings. (English summary) **97c:14010**

32Cxx General theory of analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

Fu, Joseph H. G. (*with* McCrory, Clint) Stiefel-Whitney classes and the conormal cycle of a singular variety. (English summary) **97h:32009**
Lion, Jean-Marie (*with* Roche, Claude André) Topologie des hypersurfaces pfaffiennes. (English and French summaries) [Topology of Pfaffian integrals] **97k:32012**
McCrory, Clint *see* **Fu, Joseph H. G., 97h:32009**
Roche, Claude André *see* **Lion, Jean-Marie, 97k:32012**

Items with secondary classifications in 32C05

Acquistapace, F. (*with* Broglia, Fabrizio; Tognoli, Alberto) Smooth and analytic solutions for analytic linear systems. (English summary) **97k:14057**
Broglia, Fabrizio *see* **Acquistapace, F.; et al., 97k:14057**
Gong, Xianghong Fixed points of elliptic reversible transformations with integrals. (English summary) **97f:58103**
Miyajima, Kimio Realizations of families of complex structures. **97m:32029**
Neelon, Tejinder S. On solutions of real analytic equations. (English summary) **97j:26018**
Tognoli, Alberto *see* **Acquistapace, F.; et al., 97k:14057**

32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

Fefferman, Charles L. (*with* Narasimhan, Raghavan) A local Bernstein inequality on real algebraic varieties. **97m:32012**
Narasimhan, Raghavan *see* **Fefferman, Charles L., 97m:32012**

Items with secondary classifications in 32C07

Andradas, C. *see* **Castilla, A., 97h:32006**
Castilla, A. (*with* Andradas, C.) Connected components of global semianalytic subsets of 2-dimensional analytic manifolds. **97h:32006**
Coste, Michel (*with* Ruiz, Jesús M.; Shiota, Masahiro) Separation, factorization and finite sheaves on Nash manifolds. **97g:14039**
Lipshitz, Leonard (*with* Robinson, Zachary) Rigid subanalytic subsets of the line and the plane. (English summary) **97e:14067**
Robinson, Zachary *see* **Lipshitz, Leonard, 97e:14067**
Ruiz, Jesús M. *see* **Coste, Michel; et al., 97g:14039**
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32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

Items with secondary classifications in 32C10

Ławrynowicz, Julian (*with* Ramírez de Arellano, Enrique) Anti-involutions, symmetric complex manifolds, and quantum spaces. (English summary) **97d:58020**
Ramírez de Arellano, Enrique *see* **Ławrynowicz, Julian, 97d:58020**

32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

Duplij, S. A. The ideal structure of superconformal semigroups. (Russian. English and Russian summaries) **97k:32013**
— Noninvertible $N = 1$ superanalog of complex structure. (English summary) **97m:32013**
Onishchik, A. L. (*with* Serov, A. A.) Vector fields and deformations of isotropic super-Grassmannians of maximal type. (English summary) **97h:32010**
— On complex homogeneous supermanifolds. (Russian) **97h:32011**
Rabin, Jeffrey M. Old and new fields on super Riemann surfaces. (English summary) **97d:32007**
Serov, A. A. *see* **Onishchik, A. L., 97h:32010**

Items with secondary classifications in 32C11

Danilov, G. S. Unimodular transformations of the supermanifolds and the calculation of the multi-loops amplitudes in the superstring theory. (English summary) **97f:81118**
Domínguez Pérez, J. A. (*with* Hernández Ruipérez, D.; Sancho de Salas, C.) Global structures for the moduli of (punctured) super Riemann surfaces. (English summary) **97k:14053**
El Gradechi, Amine M. Supercoherent states and geometric quantization of a super Kähler supermanifold. (English summary) **97i:58062**
Grosche, Christian Asymptotic distributions on super-Riemann surfaces. (English summary) **97h:58166**
Hernández Ruipérez, D. *see* **Domínguez Pérez, J. A.; et al., 97k:14053**
Monastyrskiĭ, M. I. (*with* Natanzon, S. M.) The moduli space of instantons in $N = 2$ supersymmetrical σ-models. **97h:81220**
Natanzon, S. M. *see* **Monastyrskiĭ, M. I., 97h:81220**
Sancho de Salas, C. *see* **Domínguez Pérez, J. A.; et al., 97k:14053**
Schwarz, Albert Superanalogs of symplectic and contact geometry and their applications to quantum field theory. (English summary) **97g:58010**

32C15 Complex spaces

Items with secondary classifications in 32C15

Schürmann, Jörg Endlichkeits- und Verschwindungssätze für (schwach-) konstruierbare Garbenkomplexe auf komplexen Räumen. [Finiteness and vanishing theorems for (weakly-) constructible sheaf complexes on complex spaces] **97h:32041**
Tomassini, Giuseppe Foliations with complex leaves. **97b:32045**
Vâjâitu, Viorel On locally hyperconvex morphisms. (English and French summaries) **97b:32014**

32C16 CR-manifolds

Barletta, Elisabetta On the sections of a CR-bundle over a foliation with complex leaves. (Italian summary) **97k:32014**
Beloshapka, V. K. Invariants of CR-varieties that are connected with a tangent quadric. (Russian. Russian summary) **97e:32012**
Černe, Miran Analytic discs attached to a generating CR-manifold. (English summary) **97d:32008**
Dragomir, Sorin On pseudo-Hermitian immersions between strictly pseudoconvex CR manifolds. **97b:32008**
Falbel, Elisha Topological obstructions to the embeddability of CR-manifolds. **97h:32012**
Hill, C. Denson (*with* Nacinovich, Mauro) Duality and distribution cohomology of CR manifolds. **97g:32007**
— (*with* Nacinovich, Mauro) Aneurysms of pseudoconcave CR manifolds. (English summary) **97d:32009**
— (*with* Nacinovich, Mauro) Pseudoconcave CR manifolds. **97e:32013**
Lee, John M. CR manifolds with noncompact connected automorphism groups. (English summary) **97h:32013**
Li, Zhongyuan Hausdorff dimension of limit sets for spherical CR manifolds. (English summary) **97k:32015**
Luk, Hing Sun (*with* Yau, Stephen S.-T.) Invariants of strongly pseudoconvex CR manifolds. **97i:32009**
Nacinovich, Mauro *see* **Hill, C. Denson, 97e:32013; 97d:32009** *and* **97g:32007**
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 97i:32009**

Items with secondary classifications in 32C16

Baouendi, M. S. (*with* Huang, Xiao Jun; Rothschild, Linda Preiss) Regularity of CR mappings between algebraic hypersurfaces. **97e:32028**
Barletta, Elisabetta (*with* Dragomir, Sorin) On the CR structure of the tangent sphere bundle. (English summary) **97f:53046**
— (*with* Dragomir, Sorin) Pseudo-Hermitian immersions, pseudo-Einstein structures, and the Lee class of a CR manifold. **97e:53047**
Bland, John (*with* Epstein, C. L.) Embeddable CR-structures and deformations of pseudoconvex surfaces. I. Formal deformations. (English summary) **97e:32021**
Coupet, Bernard (*with* Sukhov, A. B.) Sur la régularité des applications CR dans $\mathbf{C}^2$. (English and French summaries) [Regularity of CR mappings in $\mathbf{C}^2$] **97h:32039**
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Elsen, Nicolas Holomorphic sections of a vector bundle and its conormal bundle over the circle. **97i:32019**
Epstein, C. L. *see* **Bland, John, 97e:32021**
Huang, Xiao Jun *see* **Baouendi, M. S.; et al., 97e:32028**
Luk, Hing Sun (*with* Yau, Stephen S.-T.) Invariant Kohn-Rossi cohomology and obstruction to embedding of compact real $(2n-1)$-dimensional CR manifolds in $\mathbf{C}^N$. **97h:32028**
Rothschild, Linda Preiss *see* **Baouendi, M. S.; et al., 97e:32028**
Stanton, Nancy K. Infinitesimal CR automorphisms of real hypersurfaces. **97h:32027**
Sukhov, A. B. *see* **Coupet, Bernard, 97h:32039**
Tang, Puqi Regularity and extremality of quasiconformal homeomorphisms on CR 3-manifolds. (English summary) **97h:32029**
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 97h:32028**

32C17 Kähler geometry {For differential-geometric methods see 53C55.}

Engliš, Miroslav (*with* Peetre, Jaak) Covariant Cauchy-Riemann operators and higher Laplacians on Kähler manifolds. **97f:32009**
Peetre, Jaak *see* **Engliš, Miroslav, 97f:32009**
Zheng, Fangyang Intersection domains and the sum of two complex hyperbolic metrics. (English summary) **97d:32010**

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Bland, John (*with* Kalka, Morris) Variations of holomorphic curvature for Kähler Finsler metrics. **97f:58038**
Burger, Marc *see* **Amorós, Jaume; et al., 97d:32037**
Burns, Dan On the uniqueness and characterization of Grauert tubes. **97e:32016**
Chuah, Meng-Kiat K-invariant Kaehler structures on K_C/N and the associated line bundles. (English summary) **97a:32034**
Corlette, Kevin *see* **Amorós, Jaume; et al., 97d:32037**
Dorfmeister, Josef Homogeneous Kähler and pseudo-Kähler manifolds. (English and Romanian summaries) **97h:32058**
Drusetta, Maria J. Curvature of invariant metrics on Pyatetskii-Shapiro's generalized homogeneous domains. (English summary) **97b:32046**

Jost, Jürgen (*with* Zuo, Kang[1]) Harmonic maps and Sl(r, C)-representations of fundamental groups of quasiprojective manifolds. (English summary) **97a:58043**
Kalka, Morris *see* **Bland, John, 97f:58038**
Karabegov, A. V. Deformation quantizations with separation of variables on a Kähler manifold. (English summary) **97k:58072**
Kotschick, D. *see* **Amorós, Jaume; et al., 97d:32037**
LeBrun, Claude On the scalar curvature of complex surfaces. (English summary) **97a:53112**
Li, Peter (*with* Ramachandran, Mohan) Kähler manifolds with almost nonnegative Ricci curvature. (English summary) **97f:53112**
Marinescu, Gheorghe Asymptotic Morse inequalities for pseudoconcave manifolds. **97g:32037**
Ramachandran, Mohan *see* **Li, Peter, 97f:53112**
Toledo, Domingo *see* **Amorós, Jaume; et al., 97d:32037**
Verbitskiĭ, M. S. Hyper-Kähler embeddings and holomorphic symplectic geometry. I. **97h:53053**
Yasuoka, Takashi A general Schwarz lemma on Kähler CH manifolds. (English summary) **97a:32023**
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32C18 Topology of analytic spaces

Winkelmann, Jörg Semicontinuity results for the topology of taut manifolds. **97m:32014**

32C20 Normal analytic spaces

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Alaoui, Youssef On q-complete complex spaces and their normalizations. (English and French summaries) **97k:32025**

32C25 Analytic subsets and submanifolds

El Haouzi, Abdallah Lemme de Grothendieck-Dolbeault pour un ensemble analytique complexe. (English and French summaries) [Grothendieck-Dolbeault lemma for complex analytic sets] **97g:32008**
Ronkin, L. I. Lower bound for the area of an analytic curve inside a cube in the space $\mathbf{C}^n$. (English summary) **97i:32010**

Items with secondary classifications in 32C25

Charpentier, Philippe (*with* Ortega-Cerdà, Joaquim) On the zero sets of bounded holomorphic functions in the bidisc. (English summary) **97k:32003**
Gigante, Giuliana (*with* Tomassini, Giuseppe; Venturini, Sergio) M-hyperbolic real subsets of complex spaces. (English summary) **97d:32032**
Lion, Jean-Marie (*with* Roche, Claude André) Topologie des hypersurfaces pfaffiennes. (English and French summaries) [Topology of Pfaffian integrals] **97k:32012**
Loginov, B. V. Determination of the branching equation by its group symmetry—Andronov-Hopf bifurcation. **97m:58146**
Ortega-Cerdà, Joaquim *see* **Charpentier, Philippe, 97k:32003**
Roche, Claude André *see* **Lion, Jean-Marie, 97k:32012**
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32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Alessandrini, Lucia (*with* Bassanelli, Giovanni) Lelong numbers of positive plurisubharmonic currents. (English summary) **97m:32015**
Alexander, Herbert J. A note on the Harvey-Lawson theorem. (English summary) **97a:32005**
— Holomorphic chains and the support hypothesis conjecture. **97g:32009**
Bassanelli, Giovanni *see* **Alessandrini, Lucia, 97m:32015**
Ben Messaoud, H. (*with* El Mir, H.) Tranchage et prolongement des courants positifs fermés. [Slicing and extension of closed positive currents] **97m:32016**
Biel, Mongi Lieu des points exceptionnels d'un courant positif fermé. (English and French summaries) [Locus of exceptional points of a closed positive current] **97d:32011**
Boudiaf, Djilali Interpretation of the composed residue homomorphisms by the residual currents. **97j:32003**
Collion, Stéphane Transformation d'Abel et formes différentielles algébriques. (English and French summaries) [Abel transform and algebraic differential forms] **97j:32004**
Crapsky, Cyrille Non-compensation des contributions locales pour les courants asymptotiques maximaux. (English and French summaries) [Noncompensation of local contributions for maximal asymptotic currents] **97j:32005**
Dickenstein, Alicia (*with* Gay, Roger[1]; Sessa, Carmen; Yger, Alain) Analytic functionals annihilated by ideals. (English summary) **97f:32010**
Dinh, Tien Cuong Chaînes holomorphes à bord rectifiable. (English and French summaries) [Holomorphic chains with rectifiable boundary] **97e:32007**
El Mir, H. *see* **Ben Messaoud, H., 97m:32016**
Ermolaeva, T. O. (*with* Tsikh, A. K.) Integration of rational functions over $\mathbf{R}^n$ by means of toric compactifications and higher-dimensional residues. (Russian. Russian summary) **97k:32016**
Gay, Roger[1] *see* **Dickenstein, Alicia; et al., 97f:32010**
Kaddar, Mohamed Intégration sur les cycles et formes de type L^2. (English and French summaries) [Integration on cycles and forms of L^2 type] **97d:32012**
Meo, Michel Image inverse d'un courant positif fermé par une application analytique surjective. (English and French summaries) [Inverse image of a closed positive current by a surjective analytic map] **97d:32013**
Raby, G. Tranchage des courants positifs fermés et équation de Lelong-Poincaré. (English and French summaries) [Slicing of closed positive currents and Lelong-Poincaré equation] **97d:32014**
Rashkovskiĭ, A. Yu. Monge-Ampère type currents associated to holomorphic almost periodic mappings. (English and French summaries) **97b:32009**
Sessa, Carmen *see* **Dickenstein, Alicia; et al., 97f:32010**
Silva, Alessandro $\partial\overline{\partial}$-closed positive currents and special metrics on compact complex manifolds. **97e:32014**
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Yger, Alain *see* **Dickenstein, Alicia; et al., 97f:32010**

Items with secondary classifications in 32C30

Alessandrini, Lucia (*with* Bassanelli, Giovanni) Compact complex manifolds which are Kähler outside an analytic subset. (English summary) **97c:32037**
Bassanelli, Giovanni *see* **Alessandrini, Lucia, 97c:32037**
El Haouzi, Abdallah Lemme de Grothendieck-Dolbeault pour un ensemble analytique complexe. (English and French summaries) [Grothendieck-Dolbeault lemma for complex analytic sets] **97g:32008**
Fornæss, John Erik (*with* Sibony, Nessim) Complex dynamics in higher dimension. II. **97g:32033**
Fu, Joseph H. G. (*with* McCrory, Clint) Stiefel-Whitney classes and the conormal cycle of a singular variety. (English summary) **97h:32009**
Hill, C. Denson (*with* Nacinovich, Mauro) Duality and distribution cohomology of CR manifolds. **97g:32007**
McCrory, Clint *see* **Fu, Joseph H. G., 97h:32009**
Mihalache, Nicolae Voisinages de Stein pour les surfaces de Riemann avec bord immergées dans l'espace projectif. [Stein neighborhoods for Riemann surfaces with boundary embedded in projective space] **97h:32020**
Nacinovich, Mauro *see* **Hill, C. Denson, 97g:32007**
Ofman, Salomon Résidus méromorphes et résidus de Martinelli. (English summary) [Meromorphic residues and Martinelli residues] **97b:32004**
Passare, Mikael (*with* Tsikh, A. K.) Defining the residue of a complete intersection. **97j:32002**
Rigat, Stéphane Solution explicite en termes de courants résiduels de systèmes différentiels. (English and French summaries) [Explicit solution in terms of residue currents of differential systems] **97k:32008**
Ronkin, L. I. Lower bound for the area of an analytic curve inside a cube in the space $\mathbf{C}^n$. (English summary) **97i:32010**
Russakovskiĭ, A. M. (*with* Sodin, Mikhail) Equidistribution for sequences of polynomial mappings. (English summary) **97f:32034**
Seade, José A. (*with* Suwa, Tatsuo) A residue formula for the index of a holomorphic flow. **97j:32034**
Sibony, Nessim *see* **Fornæss, John Erik, 97g:32033**
Sodin, Mikhail *see* **Russakovskiĭ, A. M., 97f:32034**
Suwa, Tatsuo *see* **Seade, José A., 97j:32034**
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Zhong, Tong De Koppelman-Leray formula on complex manifolds. (English summary) **97j:32001**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

Golovin, V. D. A finiteness criterion for cohomology of Fréchet-Montel sheaves. (English summary) **97e:32008**
Guiro, Abdoulaye Théorèmes d'approximation pour les sections différentiables. (French and Italian summaries) [Approximation theorems for differentiable sections] **97m:32017**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Vanishing theorems for constructible sheaves. I. **97d:32015**
Lê Dũng Tráng *see* **Hamm, Helmut A., 97d:32015**

Items with secondary classifications in 32C35

Alaoui, Youssef On q-complete complex spaces and their normalizations. (English and French summaries) **97k:32025**
Blache, Raimund Chern classes and Hirzebruch-Riemann-Roch theorem for coherent sheaves on complex-projective orbifolds with isolated singularities. **97d:14015**
Dimiev, Stancho (*with* Succi, Francesco) Analytic almost complex structures. **97a:53041**
Eastwood, Michael G. (*with* Gindikin, Simon G.; Wong, Hon-Wai) A holomorphic realization of analytic cohomology. (English and French summaries) **97b:32039**
Gigante, Giuliana (*with* Tomassini, Adriano) $G_{m,h}$-bundles over foliations with complex leaves. **97c:32022**
Gindikin, Simon G. *see* **Eastwood, Michael G.; et al., 97b:32039**
Guiro, Abdoulaye Dualité analytique—dualité algébrique. [Analytic and algebraic duality] **97m:32018**
Hill, C. Denson (*with* Nacinovich, Mauro) Duality and distribution cohomology of CR manifolds. **97g:32007**
Lescure, F. Exemples d'actions induites non résolubles sur la cohomologie de Dolbeault. [Examples of nonsolvable reduced actions on the Dolbeault cohomology] **97i:32042**
Miyazawa, Kazuhisa On the $\overline{\partial}$-cohomology groups of strongly q-concave manifolds. **97a:32009**
Nacinovich, Mauro *see* **Hill, C. Denson, 97g:32007**
Putinar, Mihai Abstract $\overline{\partial}$-resolutions for several commuting operators. (English summary) **97a:47011**
Schürmann, Jörg Endlichkeits- und Verschwindungssätze für (schwach-) konstruierbare Garbenkomplexe auf komplexen Räumen. [Finiteness and vanishing theorems for (weakly-) constructible sheaf complexes on complex spaces] **97b:32041**
Succi, Francesco Relative Runge domains. **97h:32022**
— *see also* **Dimiev, Stancho, 97a:53041**
Tomassini, Adriano *see* **Gigante, Giuliana, 97c:32022**
Wong, Hon-Wai *see* **Eastwood, Michael G.; et al., 97b:32039**

32C36 Local cohomology of analytic spaces

D'Agnolo, Andrea (*with* Marastoni, Corrado; Zampieri, Giuseppe) Microfunctions along

submanifolds with constant Levi rank. (English and Italian summaries) **97c:32015**
Marastoni, Corrado *see* **D'Agnolo, Andrea; et al., 97c:32015**
Zampieri, Giuseppe *see* **D'Agnolo, Andrea; et al., 97c:32015**

Items with secondary classifications in 32C36

Briançon, J. (*with* Granger, M.; Maisonobe, Ph.) Sur les systèmes différentiels relativement spécialisables et l'existence d'équations fonctionnelles relatives. (English and French summaries) [Relatively specializable systems and existence of relative functional equations] **97k:32052**
Granger, M. *see* **Briançon, J.; et al., 97k:32052**
Maisonobe, Ph. *see* **Briançon, J.; et al., 97k:32052**
Oaku, Toshinori Algorithms for b-functions, induced systems, and algebraic local cohomology of $\mathscr{D}$-modules. **97h:32016**

32C37 Duality theorems

Guiro, Abdoulaye Dualité analytique—dualité algébrique. [Analytic and algebraic duality] **97m:32018**
(Kashiwara, Masaki) *see* **Schapira, Pierre, 97f:32011**
Marastoni, Corrado La dualité de Grassmann pour les $\mathscr{D}$-modules. (English and French summaries) [Grassmann duality for $\mathscr{D}$-modules] **97d:32016**
Schapira, Pierre Constructible sheaves, Whitney functions and Schwartz's distributions. **97f:32011**

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Dickenstein, Alicia (*with* Gay, Roger[1]; Sessa, Carmen; Yger, Alain) Analytic functionals annihilated by ideals. (English summary) **97f:32010**
Gay, Roger[1] *see* **Dickenstein, Alicia; et al., 97f:32010**
Hill, C. Denson (*with* Nacinovich, Mauro) Duality and distribution cohomology of CR manifolds. **97g:32007**
Nacinovich, Mauro *see* **Hill, C. Denson, 97g:32007**
Sessa, Carmen *see* **Dickenstein, Alicia; et al., 97f:32010**
Yger, Alain *see* **Dickenstein, Alicia; et al., 97f:32010**

32C38 Sheaves of differential operators and their modules [see also 14F10, 16S32, 35A27, 58G07]

Andronikof, Emmanuel Microlocalization of perverse sheaves. **97k:32017**
Belgrade, Ridha Sur la conjugaison de Kashiwara pour une classe de connexions méromorphes irrégulières. (English summary) [Kashiwara conjugation for a class of irregular meromorphic connections] **97h:32014**
D'Agnolo, Andrea (*with* Zampieri, Giuseppe) Microlocal direct images of simple sheaves with applications to systems with simple characteristics. (English and French summaries) **97b:32010**
— Une interprétation cohomologique de la condition de Radon-Cavalieri. (English and French summaries) [A cohomological interpretation of the Radon-Cavalieri condition] **97m:32019**
Guillermou, Stéphane Lefschetz class of elliptic pairs. **97g:32010**
Kashiwara, Masaki Algebraic study of systems of partial differential equations. (English and French summaries) **97f:32012**
Mebkhout, Z. Le polygone de Newton d'un $\mathscr{D}_X$-module. [The Newton polygon of a $\mathscr{D}_X$-module] **97h:32015**
Oaku, Toshinori Algorithms for b-functions, induced systems, and algebraic local cohomology of $\mathscr{D}$-modules. **97h:32016**
Sabbah, Claude On the comparison theorem for elementary irregular $\mathscr{D}$-modules. **97h:32017**
Takeuchi, Kiyoshi[2] Théorèmes de type edge of the wedge pour les solutions hyperfonctions. (English and French summaries) [Edge of the wedge type theorems for hyperfunction solutions] **97g:32011**
Zampieri, Giuseppe *see* **D'Agnolo, Andrea, 97b:32010**

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Backelin, E. On the homological dimension of a Dcr-free hypersurface. (English summary) **97e:16017**
Briançon, J. (*with* Maisonobe, Ph.) Caractérisation géométrique de l'existence du polynôme de Bernstein relatif. [Geometric characterization of the existence of the relative Bernstein polynomial] **97d:32052**
— (*with* Granger, M.; Maisonobe, Ph.) Sur les systèmes différentiels relativement spécialisables et l'existence d'équations fonctionnelles relatives. (English and French summaries) [Relatively specializable systems and existence of relative functional equations] **97k:32052**
Calderón Moreno, Francisco J. Quelques propriétés de la V-filtration relative à un diviseur libre. (English and French summaries) [Some properties of the V-filtration with respect to a free divisor] **97i:32048**
D'Agnolo, Andrea (*with* Marastoni, Corrado; Zampieri, Giuseppe) Microfunctions along submanifolds with constant Levi rank. (English and Italian summaries) **97c:32015**
— (*with* Schapira, Pierre) Radon-Penrose transform for $\mathscr{D}$-modules. (English summary) **97h:32048**
Goncharov, A. B. Integral geometry and $\mathscr{D}$-modules. **97a:53116**
Granger, M. *see* **Briançon, J.; et al., 97k:32052**
Guillermou, Stéphane Indice d'un $\mathscr{D}$-module équivariant transversalement elliptique. (English and French summaries) [Index of an equivariant transversally elliptic $\mathscr{D}$-module] **97c:58147**
Kashiwara, Masaki (*with* Schapira, Pierre) Moderate and formal cohomology associated with constructible sheaves. (English and French summaries) **97m:32052**
Koshimizu, Hiroshi (*with* Takeuchi, Kiyoshi[2]) On the solvability of linear partial differential equations. **97e:58210**
Maisonobe, Ph. *see* **Briançon, J., 97d:32052** *and* **97k:32052**
Marastoni, Corrado La dualité de Grassmann pour les $\mathscr{D}$-modules. (English and French summaries) [Grassmann duality for $\mathscr{D}$-modules] **97d:32016**
— *see also* **D'Agnolo, Andrea; et al., 97c:32015**
Maynadier, Hélène Équations fonctionnelles pour une intersection complète quasi-homogène à singularité isolée. (English and French summaries) [Functional equations for a weighted-homogeneous isolated complete intersection singularity] **97e:32043**
Nitsure, Nitin (*with* Sabbah, Claude) Moduli of pre-$\mathscr{D}$-modules, perverse sheaves and the Riemann-Hilbert morphism. I. **97h:14021**
Oaku, Toshinori Gröbner bases for D-modules on a non-singular affine algebraic variety. (English summary) **97h:14037**
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Schapira, Pierre *see* **D'Agnolo, Andrea, 97h:32048** *and* **Kashiwara, Masaki, 97m:32052**
Takeuchi, Kiyoshi[2] Microlocal boundary value problem in higher codimensions. (English and French summaries) **97h:58146**
— *see also* **Koshimizu, Hiroshi, 97e:58210**
Zampieri, Giuseppe Microlocalization of $\mathscr{O}_X$ along dihedral Lagrangians. **97m:58187**
— *see also* **D'Agnolo, Andrea; et al., 97c:32015**

32Dxx Analytic continuation

32D05 Domains of holomorphy

Jarnicki, Marek (*with* Pflug, Peter) On balanced L^2-domains of holomorphy. (English summary) **97a:32006**
— (*with* Pflug, Peter) On the extended tube conjecture. **97k:32018**
Pflug, Peter *see* **Jarnicki, Marek, 97a:32006** *and* **97k:32018**
Sergeev, A. G. (*with* Zhou, Xiang Yu) On invariant domains of holomorphy. (Russian) **97e:32009**
— On invariant domains of holomorphy. (English and Polish summaries) **97i:32011**
Zhou, Xiang Yu *see* **Sergeev, A. G., 97e:32009**

Items with secondary classifications in 32D05

Tsuji, Miki Continuation of bounded holomorphic functions from one-codimensional subspace to pseudoconvex domains. (English summary) **97i:32012**

32D10 Envelopes of holomorphy

Items with secondary classifications in 32D10

Sergeev, A. G. (*with* Zhou, Xiang Yu) On invariant domains of holomorphy. (Russian) **97e:32009**
Zhou, Xiang Yu *see* **Sergeev, A. G., 97e:32009**

32D15 Continuation of analytic objects

Barrett, David E. Holomorphic extension from boundaries with concentrated Levi form. (English summary) **97e:32016**
Berndtsson, Bo The extension theorem of Ohsawa-Takegoshi and the theorem of Donnelly-Fefferman. (English and French summaries) **97k:32019**
Dauns, Nicholas J. Summability transforms of the Taylor series. (English summary) **97h:32018**
Do Duc Thai Extending holomorphic maps through pluri-polar sets in high dimension. (English summary) **97e:32017**
Huong, Nguyen Thi Le Generalization of the Riemann theorem on the extension of bounded holomorphic maps. (English summary) **97e:32010**
Kytmanov, A. M. (*with* Yakimenko, M. Sh.) Errata: "On a criterion for the existence of a holomorphic continuation of functions into $\mathbb{C}^2$" [Izv. Vyssh. Uchebn. Zaved. Mat. **1994**, no. 8, 39–45; MR 96a:32024]. **Lê Mâu Hai** (*with* Tran Huu Nam) Extending hypersurfaces and meromorphic functions. (English summary) **97h:32019**
Nardelli, Giuliana (*with* Tancredi, A.) A note on the extension of analytic functions off real analytic subsets. (English summary) **97k:32020**
Tancredi, A. *see* **Nardelli, Giuliana, 97k:32020**
Tran Huu Nam *see* **Lê Mâu Hai, 97h:32019**
Tsuji, Miki Continuation of bounded holomorphic functions from one-codimensional subspace to pseudoconvex domains. (English summary) **97i:32012**
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Items with secondary classifications in 32D15

(Boas, Harold P.) *see* **Kytmanov, A. M., 97f:32004**
Borchers, Hans-Jürgen ★ Translation group and particle representations in quantum field theory. (English summary) **97m:81023**
Bros, Jacques (*with* Moschella, Ugo) Two-point functions and quantum fields in de Sitter universe. (English summary) **97d:81137**
Diederich, Klas (*with* Pinchuk, S. I.) Proper holomorphic maps in dimension 2 extend. (English summary) **97g:32031**
Huang, Xiao Jun Schwarz reflection principle in complex spaces of dimension two. **97m:32043**
Kytmanov, A. M. ★ The Bochner-Martinelli integral and its applications. (English summary) **97f:32004**
Moschella, Ugo *see* **Bros, Jacques, 97d:81137**
Pinchuk, S. I. *see* **Diederich, Klas, 97g:32031**
Shevchishin, V. V. The Thullen type extension theorem for holomorphic vector bundles with L^2-bounds on curvature. **97e:32033**

32D20 Removable singularities

Merker, Joël A. D. On removable singularities for CR functions in higher codimension. **97m:32020**
Rea, Claudio Integrable singularities of the solutions of first-order complex linear operators and CR-functions. (Italian) **97e:32011**

Items with secondary classifications in 32D20

Björn, Anders Removable singularities for Hardy spaces in subdomains of **C**. (English summary) **97h:30052**

32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

Lempert, László Algebraic approximations in analytic geometry. **97k:32021**
Ohsawa, Takeo A note on the variation of Riemann surfaces. **97g:32012**

Items with secondary classifications in 32E05

Daras, Nicholas J. Summability transforms of the Taylor series. (English summary) **97h:32018**
Mihalache, Nicolae Voisinages de Stein pour les surfaces de Riemann avec bord immergées dans l'espace projectif. [Stein neighborhoods for Riemann surfaces with boundary embedded in projective space] **97h:32020**

32E10 Stein spaces, Stein manifolds

Colţoiu, Mihnea Stein spaces. A survey. **97b:32011**
Mihalache, Nicolae Voisinages de Stein pour les surfaces de Riemann avec bord immergées dans l'espace projectif. [Stein neighborhoods for Riemann surfaces with boundary embedded in projective space] **97h:32020**
Vâjâitu, Viorel Holomorphic q-hulls in top degrees. **97h:32021**

Items with secondary classifications in 32E10

Gindikin, Simon G. The holomorphic Cauchy-Szegő kernel for nonholomorphic discrete series representations of SU(2, 1). (English summary) **97a:22021**
Lê Mâu Hai (*with* Tran Huu Nam) Extending hypersurfaces and meromorphic functions. (English summary) **97h:32019**
Lisca, Paolo (*with* Matić, Gordana) On homotopic, non-isomorphic tight contact structures on 3-manifolds. **97m:57050**
Matić, Gordana *see* **Lisca, Paolo, 97m:57050**
Tran Huu Nam *see* **Lê Mâu Hai, 97h:32019**
Zeriahi, Ahmed Pluricomplex Green functions and approximation of holomorphic functions. **97m:32025**
Zhong, Tong De Lipschitz $\frac{1}{2}$-estimates for the $\overline{\partial}$ operator on Stein manifolds. (Chinese. English and Chinese summaries) **97i:32017**

32E20 Polynomial convexity

Alexander, Herbert J. Polynomial hulls of sets in $\mathbf{C}^3$ fibered over the unit circle. **97k:32022**
Wiegerinck, Jan Local polynomially convex hulls at degenerated CR singularities of surfaces in $\mathbf{C}^2$. (English summary) **97d:32017**

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Alexander, Herbert J. A note on the Harvey-Lawson theorem. (English summary) **97a:32005**
Černe, Miran Analytic discs attached to a generating CR-manifold. (English summary) **97d:32008**
Gorelik, E. The concept of growth for metric spaces. (English summary) **97e:53080**
Vâjâitu, Viorel Holomorphic q-hulls in top degrees. **97h:32021**

32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Cho, Sanghyun Peak function and its applications. **97e:32012**
Wawrzyńczyk, Antoni A note on generating ideals of holomorphic functions. (English summary) **97b:32012**
Yu, Jiye A counterexample to the existence of peaking functions. (English summary) **97j:32006**

Items with secondary classifications in 32E25

Barrett, David E. Holomorphic extension from boundaries with concentrated Levi form. (English summary) **97e:32016**
Dau The Cap (*with* Nguyễn Văn Khuê) On integral extension of uniform Fréchet algebras. (English summary) **97e:46069**
Izuchi, Keiji (*with* Matsugu, Yasuo; Takagi, Hiroyuki) BKW-operators on the polydisc and ball algebras. (English summary) **97b:41023**
— (*with* Kasuga, Kazuhiro; Matsugu, Yasuo) Bourgain algebras of spaces of n-harmonic functions in the unit polydisk. (English summary) **97h:46086**
Kasuga, Kazuhiro *see* **Izuchi, Keiji; et al., 97h:46086**
Kyriazis, Athanasios On topological algebra sheaves. (English summary) **97i:46132**
Li, Bao Qin (*with* Taylor, B. Alan) On the Bézout problem and area of interpolating varieties in $\mathbf{C}^n$. (English summary) **97b:32002**
Matsugu, Yasuo *see* **Izuchi, Keiji; et al., 97b:41023** *and* **97h:46086**
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Taylor, B. Alan *see* **Li, Bao Qin, 97b:32002**

32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

Berenstein, Carlos A. (*with* Chang, Der-Chen; Li, Bao Qin) Interpolating varieties and counting functions in $\mathbf{C}^n$. **97a:32007**
Chang, Der-Chen *see* **Berenstein, Carlos A.; et al., 97a:32007**
Cole, Brian J. (*with* Wermer, John) Interpolation in the bidisk. (English summary) **97e:32013**
Ikehara, Masanori *see* **Sakai, Akira, 97e:32014**
Li, Bao Qin *see* **Berenstein, Carlos A.; et al., 97a:32007**
Sakai, Akira (*with* Ikehara, Masanori) Holomorphic approximation on open subsets of $\mathbf{R}^n$. (English summary) **97e:32014**
Succi, Francesco Relative Runge domains. **97h:32022**
Wermer, John *see* **Cole, Brian J., 97e:32013**
Whittlesey, Marshall A. Approximation of singularity sets with analytic graphs over the ball in $\mathbf{C}^2$. (English summary) **97m:32021**

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Buzzard, Gregery T. (*with* Fornæss, John Erik) An embedding of **C** in $\mathbf{C}^2$ with hyperbolic complement. **97k:32038**
Cho, Hong Rae *see* **Lee, Jinkee, 97a:32011**
Fornæss, John Erik *see* **Buzzard, Gregery T., 97k:32038**
Forstnerič, Franc (*with* Globevnik, Josip; Rosay, Jean-Pierre) Nonstraightenable complex lines in $\mathbf{C}^2$. **97b:32033**
— (*with* Globevnik, Josip; Stensønes, Berit) Embedding holomorphic discs through discrete sets. **97k:32041**
Globevnik, Josip *see* **Forstnerič, Franc; et al., 97b:32033** *and* **97k:32041**
Lee, Jinkee (*with* Cho, Hong Rae) Approximation by holomorphic functions on pseudoconvex complex manifolds. **97a:32011**
Rosay, Jean-Pierre *see* **Forstnerič, Franc; et al., 97b:32033**
Siciak, Józef Bernstein-Walsh type theorems for pluriharmonic functions. (English summary) **97g:31010**
Stensønes, Berit *see* **Forstnerič, Franc; et al., 97k:32041**
Zeriahi, Ahmed Pluricomplex Green functions and approximation of holomorphic functions. **97m:32025**

32E35 Global boundary behavior of holomorphic functions

Items with secondary classifications in 32E35

Aĭzenberg, L. A. (*with* Karepov, O. V.; Shlapunov, A. A.) On the property of the uniqueness and the existence of a limit in the Carleman formulas. (Russian) **97b:32003**
Coupet, Bernard (*with* Sukhov, A. B.) On the boundary rigidity phenomenon for automorphisms of domains in $\mathbf{C}^n$. (English summary) **97a:32042**
Karepov, O. V. *see* **Aĭzenberg, L. A.; et al., 97b:32003**
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Sukhov, A. B. *see* **Coupet, Bernard, 97a:32042**

32E99 None of the above, but in this section

Alexander, Herbert J. Gromov's method and Bennequin's problem. **97j:32007**
— *see also* **Rosay, Jean-Pierre. 97j:32008**
Fabre, Bruno Sur l'intersection d'une surface de Riemann avec des hypersurfaces algébriques. (English and French summaries) [Intersections of a Riemann surface with algebraic hypersurfaces] **97a:32008**
Rosay, Jean-Pierre A remark on the paper by H. Alexander on Bennequin's problem: "Gromov's method and Bennequin's problem" [Invent. Math. **125** (1996), no. 1, 135–148; MR 97j:32007]. **97j:32008**

32Fxx Geometric convexity, partial differential operators

32F05 Plurisubharmonic functions and generalizations [see also 31C10]

Adzievski, Kuzman Boundary limits of pluri-Green potentials in the unit ball of $\mathbf{C}^n$. (English summary) **97m:32022**
Carleheď, Magnus A relation between the pluricomplex and the classical Green functions in the unit ball of $\mathbf{C}^n$. (English summary) **97g:32013**
Edigarian, Armen On the product property of the pluricomplex Green function. (English summary) **97m:32023**
Kosek, Marta Hölder continuity property of filled-in Julia sets in $\mathbf{C}^n$. (English summary) **97i:32013**
Mochizuki, Nozomu Harmonic majorization for plurisubharmonic functions. (English summary) **97f:32013**
Momm, Siegfried Extremal plurisubharmonic functions for convex bodies in $\mathbf{C}^n$. **97i:32014**
— An extremal plurisubharmonic function associated to a convex pluricomplex Green function with pole at infinity. **97b:32013**
Noell, Alan Local and global plurisubharmonic defining functions. (English summary) **97m:32024**
Poletsky, Evgeny A. Analytic geometry on compacta in $\mathbf{C}^n$. **97e:32015**
Sekeriń, A. B. Representation of functions by logarithmic potential and reducibility of analytic functions of several variables. (English summary) **97k:32023**
Siciak, Józef Families of polynomials and determining measures. (English and French summaries)
Souhail, Sliman Sur les ensembles pluripolaires complets. (English and French summaries) [On complete pluripolar sets] **97h:32023**
Stoll, Manfred Boundary limits and non-integrability of $\mathscr{M}$-subharmonic functions in the unit ball of $\mathbf{C}^n$ ($n \geq 1$). (English summary) **97k:32024**
Zeriahi, Ahmed Pluricomplex Green functions and approximation of holomorphic functions. **97m:32025**

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Alessandrini, Lucia (*with* Bassanelli, Giovanni) Lelong numbers of positive plurisubharmonic currents. (English summary) **97m:32015**

Balogh, Zoltan (*with* Leuenberger, Christoph) Lempert mappings and symplectic forms. (English summary) **97m:32026**
Bassanelli, Giovanni *see* **Alessandrini, Lucia, 97m:32015**
Blocki, Zbigniew Estimates for the complex Monge-Ampère operator. (English summary) **97j:32009**
Cegrell, Urban (*with* Thorbiörnson, Johan) Extremal plurisubharmonic functions. (English summary) **97b:31010**
Cho, Hong Rae *see* **Lee, Jinkee, 97a:32011**
Do Duc Thai Extending holomorphic maps through pluri-polar sets in high dimension. (English summary) **97c:32017**
Izzo, Alexander J. Uniform algebras generated by holomorphic and pluriharmonic functions on strictly pseudoconvex domains. (English summary) **97a:46062**
Lee, Jinkee (*with* Cho, Hong Rae) Approximation by holomorphic functions on pseudoconvex complex manifolds. **97a:32011**
Leuenberger, Christoph *see* **Balogh, Zoltan, 97m:32026**
Momm, Siegfried Plurisubharmonic saddles. (English summary) **97b:31002**
Thorbiörnson, Johan *see* **Cegrell, Urban, 97b:31010**

32F07 Complex Monge-Ampère operator

Abate, Marco (*with* Patrizio, Giorgio) Complex homogeneous Monge-Ampère equation and Finsler metrics. (Italian. English and Italian summaries) **97h:32024**
Ben Abdesselem, Adnène Monge-Ampere equations on certain manifolds with positive first Chern class. **97h:32025**
Blocki, Zbigniew Estimates for the complex Monge-Ampère operator. (English summary) **97j:32009**
Burns, Dan On the uniqueness and characterization of Grauert tubes. **97e:32016**
Hanani, Abdellah Une généralisation de l'équation de Monge-Ampère sur les variétés hermitiennes compactes. (English and French summaries) [A generalization of the Monge-Ampère equation on compact Hermitian manifolds] **97d:32018**
— Équations du type de Monge-Ampère sur les variétés hermitiennes compactes. (French summary) [Monge-Ampère equations on compact Hermitian manifolds] **97c:32018**
Patrizio, Giorgio *see* **Abate, Marco, 97h:32024**
Semmes, Stephen W. The homogeneous complex Monge-Ampère equation and the infinite-dimensional versions of classic symmetric spaces. (English summary) **97e:32017**

Items with secondary classifications in 32F07

Blocki, Zbigniew Smooth exhaustion functions in convex domains. **97j:35028**
Edigarian, Armen On the product property of the pluricomplex Green function. (English summary) **97m:32023**
Rashkovskiĭ, A. Yu. Monge-Ampère type currents associated to holomorphic almost periodic mappings. (English and French summaries) **97b:32009**
Russakovskiĭ, A. M. (*with* Sodin, Mikhail) Equidistribution for sequences of polynomial mappings. (English summary) **97f:32034**
Sodin, Mikhail *see* **Russakovskiĭ, A. M., 97f:32034**

32F10 q-convexity, q-concavity

Alaoui, Youssef On q-complete complex spaces and their normalizations. (English and French summaries) **97k:32025**
Barkatou, Moulay-Youssef Régularité höldérienne du $\overline{\partial}_b$ dans les hypersurfaces 1-convexes-concaves. [Hölder regularity of $\overline{\partial}_b$ in 1-convex-concave hypersurfaces] **97d:32019**
Colţoiu, Mihnea A counter-example to the q-Levi problem in $\mathbf{P}^n$. **97e:32018**
Miyazawa, Kazuhisa On the $\overline{\partial}$-cohomology groups of strongly q-concave manifolds. **97a:32009**
Vâjâitu, Viorel On locally hyperconvex morphisms. (English and French summaries) **97b:32014**
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Marinescu, Gheorghe Asymptotic Morse inequalities for pseudoconcave manifolds. **97g:32037**
Nacinovich, Mauro *see* **Hill, C. Denson, 97d:32009**
Schürmann, Jörg Endlichkeits- und Verschwindungssätze für (schwach-) konstruierbare Garbenkomplexe auf komplexen Räumen. [Finiteness and vanishing theorems for (weakly-) constructible sheaf complexes on complex spaces] **97b:32041**
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32F15 Pseudoconvex domains

Balogh, Zoltan (*with* Leuenberger, Christoph) Lempert mappings and symplectic forms. (English summary) **97m:32026**
Baribeau, Line Subharmonicity and fundamental domains. (English summary) **97j:32010**
Cho, Sanghyun Stability of type condition in $\mathbf{C}^n$. **97m:32027**
Landucci, Mario (*with* Spiro, Andrea F.) On pseudoconvexity of Reinhardt domains. (Italian summary) **97i:32015**
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Spiro, Andrea F. *see* **Landucci, Mario, 97i:32015**

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Adachi, Kenzô (*with* Cho, Hong Rae) Some Lipschitz regularity of the Cauchy transform on a convex domain in $\mathbf{C}^2$ with real analytic boundary. (English summary) **97m:32007**
Berndtsson, Bo The extension theorem of Ohsawa-Takegoshi and the theorem of Donnelly-Fefferman. (English and French summaries) **97k:32019**
Bui Duc Tac *see* **Tran Huu Nam, 97m:32046**
Chen, Lang On weak compactness of composition operators on Bergman spaces of several complex variables. (English summary) **97i:47055**
Chen, Ten Ging (*with* Lin, C. G.) Measure hyperbolicity and convexity. (English summary) **97b:32032**
Cho, Hong Rae Stability of the Bergman kernel function on pseudoconvex domains in $\mathbf{C}^n$. (English summary) **97i:32029**
— *see also* **Adachi, Kenzô, 97m:32007**
Fabre, Bruno Sur l'intersection d'une surface de Riemann avec des hypersurfaces algébriques. (English and French summaries) [Intersections of a Riemann surface with algebraic hypersurfaces] **97a:32008**
Forstneric, Franc (*with* Globevnik, Josip; Stensønes, Berit) Embedding holomorphic discs through discrete sets. **97k:32041**
Fu, Siqi (*with* Isaev, Alexander V.; Krantz, Steven G.) Finite type conditions on Reinhardt domains. (English summary) **97m:32001**
Globevnik, Josip *see* **Forstneric, Franc; et al., 97k:32041**
Isaev, Alexander V. *see* **Fu, Siqi; et al., 97m:32001**
Kim, Kang-Tae (*with* Yu, Jiye) Boundary behavior of the Bergman curvature in strictly pseudoconvex polyhedral domains. (English summary) **97k:32037**
Krantz, Steven G. (*with* Yu, Jiye) On the Bergman invariant and curvatures of the Bergman metric. **97g:32026**
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Ma, Zhong Tai The local C^k-boundary regularity of integral solution operators of the $\overline{\partial}$-equations. (English and Chinese summaries) **97m:32010**
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Mok, Ngaiming Harmonic forms with values in locally constant Hilbert bundles. **97c:58008**
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Slodkowski, Zbigniew (*with* Tomassini, Giuseppe) Geometric properties of solutions of the Levi curvature equation in $\mathbf{C}^2$. **97e:32021**
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Tran Huu Nam (*with* Bui Duc Tac) Pseudoconvexité des domaines d'existence des fonctions méromorphes à valeurs vectorielles. (French summary) [Pseudoconvexity of the domains of existence of vector-valued meromorphic functions] **97m:32046**
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Zhang, Wenjun (*with* Ren, Fu Yao) Dynamics on weakly pseudoconvex domains. (English summary) **97d:32035**

32F20 $\overline{\partial}$- and $\overline{\partial}_b$-Neumann problems [see also 35N15]

Adachi, Kenzô Note on the global regularity for the $\overline{\partial}$-equation. (English summary) **97b:32015**
Andersson, Mats E. L. A division problem for $\overline{\partial}_b$-closed forms. (English summary) **97i:32016**
Barletta, Elisabetta (*with* Parrini, Carla) Bounded solutions for $\overline{\partial}$-problem in pseudo-Siegel domains. (English and Italian summaries) **97c:32019**
Berndtsson, Bo $\overline{\partial}$ and Schrödinger operators. **97a:32010**
Bonneau, Pierre (*with* Cumenge, Anne) L'équation de Cauchy-Riemann dans certains croissants de $\mathbf{C}^n$. (English and French summaries) [The Cauchy-Riemann equation in some lunes in $\mathbf{C}^n$] **97j:32011**
Cho, Hong Rae Global regularity of the $\overline{\partial}$-Neumann problem on an annulus between two pseudoconvex manifolds which satisfy property (P). (English summary) **97e:32019**
Christ, Michael Remarks on analytic hypoellipticity of $\overline{\partial}_b$. **97d:32022**
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Hayashi, Yasuo A global theory of some nonlinear Cauchy-Riemann system in several complex variables. (English summary) **97d:32023**
Iordan, Andrei *see* **Khenkin, G. M.; et al., 97g:32014**
Khenkin, G. M. (*with* Iordan, Andrei; Kohn, Joseph J.) Estimations sous-elliptiques pour le problème $\overline{\partial}$-Neumann dans un domaine strictement pseudoconvexe à frontière lisse par morceaux. (English and French summaries) [Subelliptic estimates for the $\overline{\partial}$-Neumann problem on strictly pseudoconvex domains with piecewise smooth boundary] **97g:32014**
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Pham Khac Ban Differential forms of type $(0, q)$ on complete convex bornological vector spaces. (English summary) **97e:32020**
Ueki, Naomasa Hypoellipticity for the $\overline{\partial}$-Neumann problem on certain domains with infinite degeneracy. **97f:32015**
Zhong, Tong De Lipschitz $\frac{1}{2}$-estimates for the $\overline{\partial}$ operator on Stein manifolds. (Chinese. English and Chinese summaries) **97i:32017**
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Amar, Eric Big Hankel operator and $\overline{\partial}_b$-equation. (English summary) **97c:47024**
Andersson, Mats E. L. (*with* Carlsson, Hasse) H^p-estimates of holomorphic division formulas. (English summary) **97e:32002**
Andreadis, T. Solution of $\overline{\partial}$ equation with compactly supported data. (English and Italian summaries) **97m:32008**
Barkatou, Moulay-Youssef Régularité höldérienne du $\overline{\partial}_b$ dans les hypersurfaces 1-convexes-concaves. [Hölder regularity of $\overline{\partial}_b$ in 1-convex-concave hypersurfaces] **97d:32019**
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Carlsson, Hasse *see* **Andersson, Mats E. L., 97e:32002**
Chen, Shu Jin The Koppelman-Leray formula and its application on complex submanifold. (English summary) **97f:32003**

Chen, Ten Ging (*with* Lin, Jin Long) Integral representation of solution for $\overline{\partial}u = f$ and its uniform estimate on ellipsoids. (English summary) **97d:32003**
Derridj, Makhlouf (*with* Tartakoff, David S.) Microlocal analyticity for the canonical solution $\overline{\partial}_b$ on some rigid weakly pseudoconvex hypersurfaces in $\mathbf{C}^2$. (English summary) **97e:35121**
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— Turrittin ordinary differential equations, ∂_b operators and the breakdown of real analyticity of Szegő kernels. (Japanese) (*see* **97c:00055**)
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Luk, Hing Sun (*with* Yau, Stephen S.-T.) Invariant Kohn-Rossi cohomology and obstruction to embedding of compact real $(2n-1)$-dimensional CR manifolds in $\mathbf{C}^N$. **97h:32028**
Ma, Zhong Tai The local C^k-boundary regularity of integral solution operators of the $\overline{\partial}$-equations. (English and Chinese summaries) **97m:32010**
McNeal, Jeffery D. On large values of L^2 holomorphic functions. **97e:32004**
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Rea, Claudio Integrable singularities of the solutions of first-order complex linear operators and CR-functions. (Italian) **97e:32011**
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Yan, Rong Mu (*with* Ye, Fang Cao) The $(0,1)$-Green form in the n-dimensional complex projective space $\mathbf{CP}^n$. (Chinese. English summary)
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 97h:32028**
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32F25 Real submanifolds in complex manifolds

Domrin, A. V. A description of characteristic classes of real submanifolds in complex manifolds in terms of RC-singularities. (Russian. Russian summary) **97c:32020**
Eisen, Nicolas Holomorphic sections of a vector bundle and its conormal bundle over the circle. **97i:32019**
Isaev, Alexander V. Rigid spherical hypersurfaces. (English summary) **97k:32026**
Loboda, A. V. On some invariants of tubular hypersurfaces in $\mathbf{C}^2$. (Russian. Russian summary) **97d:32024**
Meylan, Francine The reflection principle in complex space. **97b:32016**
Palinchak, N. F. On C-rigid quadrics. (Russian. Russian summary) **97h:32026**
Stanton, Nancy K. Infinitesimal CR automorphisms of real hypersurfaces. **97h:32027**

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Arbat-skil, A. F. On the structure of groups of nonlinear automorphisms of (3, 3)-quadrics. (Russian. Russian summary) **97f:32048**
Attioui, Abdelali Version réelle de la conjecture de Ramadanov. (English and French summaries) [Real version of the Ramadanov conjecture] **97d:32031**
Baouendi, M. S. (*with* Huang, Xiao Jun; Rothschild, Linda Preiss) Nonvanishing of the differential of holomorphic mappings at boundary points. **97d:32025**
Barkatou, Moulay-Youssef Régularité höldérienne du $\overline{\partial}_b$ dans les hypersurfaces 1-convexes-concaves. [Hölder regularity of $\overline{\partial}_b$ in 1-convex-concave hypersurfaces] **97d:32019**
Borrelli, Vincent Classe de Maslov des sous-variétés totalement réelles. (English and French summaries) [Maslov class of totally real submanifolds] **97i:53071**
Černe, Miran Analytic discs attached to a generating CR-manifold. (English summary) **97d:32008**
Chern, Shiing Shen (*with* Ji, Shanyu) On the Riemann mapping theorem. (English summary) **97m:32037**
Huang, Xiao Jun *see* **Baouendi, M. S.; et al., 97d:32025**
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Kamishima, Yoshinobu Geometric flows on compact manifolds and global rigidity. **97f:57041**
Oh, Yong-Geun Fredholm theory of holomorphic discs under the perturbation of boundary conditions. **97g:58024**
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32F30 Pseudoconvex manifolds

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Zhong, Tong De Koppelman-Leray-Norguet formula on complex manifolds and applications. (English summary) **97k:32006**

32F40 CR structures, (tangential) CR operators and generalizations

Baouendi, M. S. (*with* Huang, Xiao Jun; Rothschild, Linda Preiss) Nonvanishing of the differential of holomorphic mappings at boundary points. **97d:32025**
Huang, Xiao Jun *see* **Baouendi, M. S.; et al., 97d:32025**
Luk, Hing Sun (*with* Yau, Stephen S.-T.) Invariant Kohn-Rossi cohomology and obstruction to embedding of compact real $(2n-1)$-dimensional CR manifolds in $\mathbf{C}^N$. **97h:32028**
Rothschild, Linda Preiss *see* **Baouendi, M. S.; et al., 97d:32025**
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 97h:32028**

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Barletta, Elisabetta (*with* Dragomir, Sorin) On $\mathcal{S}^1$-Lie foliations with transverse CR structure. (English and Italian summaries) **97g:53033**
Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter) The Green function of model step two hypoelliptic operators and the analysis of certain tangential Cauchy Riemann complexes. **97f:35029**
Bland, John (*with* Epstein, C. L.) Embeddable CR-structures and deformations of pseudoconvex surfaces. I. Formal deformations. (English summary) **97c:32021**
Christ, Michael The Szegő projection need not preserve global analyticity. **97e:32027**
Dragomir, Sorin *see* **Barletta, Elisabetta, 97g:53033**
Eisen, Nicolas Holomorphic sections of a vector bundle and its conormal bundle over the circle. **97i:32019**
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Fischer, Bert Kernels of Martinelli-Bochner type on hypersurfaces. **97i:32003**
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Greiner, Peter *see* **Beals, Richard; et al., 97f:35029**
Hill, C. Denson (*with* Nacinovich, Mauro) Pseudoconcave CR manifolds. **97e:32013**
Lee, John M. CR manifolds with noncompact connected automorphism groups. (English summary) **97h:32013**
Luk, Hing Sun (*with* Yau, Stephen S.-T.) Invariants of strongly pseudoconvex CR manifolds. **97i:32009**
Nacinovich, Mauro *see* **Hill, C. Denson, 97e:32013**
Villarroel, Yuli Higher order contact of real curves in a real hyperquadric. (English summary) **97e:53026**
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 97i:32009**

32F99 None of the above, but in this section

Slodkowski, Zbigniew (*with* Tomassini, Giuseppe) Geometric properties of solutions of the Levi curvature equation in $\mathbf{C}^2$. **97e:32021**
Tomassini, Giuseppe *see* **Slodkowski, Zbigniew, 97e:32021**
Znamenskaya, L. N. *see* **Znamenskil, S. V., 97d:32026**
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Dingoyan, Pascal Fonctions méromorphes sur un ouvert pseudoconcave d'une variété algébrique projective. (English and French summaries) [Meromorphic functions on an open pseudoconcave subset of an algebraic projective variety] **97k:14015**
Isaev, Alexander V. (*with* Krantz, Steven G.) On the boundary orbit accumulation set for a domain with noncompact automorphism group. **97m:32048**
Krantz, Steven G. *see* **Isaev, Alexander V., 97m:32048**
Li, Zhongyuan Hausdorff dimension of limit sets for spherical CR manifolds. (English summary) **97k:32015**

32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

Bikbaev, Ramil' Faritovich Complex deformations of Riemann surfaces, frequency maps and instability problems. **97f:32016**
Harris, Adam A regularity theorem for deformations of a compact complex surface. (English summary) **97b:32017**
— A removable singularities theorem for families of ruled surfaces. **97k:32027**
Hwang, Jun-Muk Nondeformability of the complex hyperquadric. (English summary) **97k:32028**
Miyajima, Kimio Kuranishi family of strongly pseudo-convex domains. **97g:32015**
— Realizations of families of complex structures. **97m:32029**
— A note on the Bogomolov-type smoothness on deformations of the regular parts of isolated singularities. (English summary) **97d:32027**
Ran, Ziv Thickening Calabi-Yau moduli spaces. (English summary) **97i:32020**
Takamura, Shigeru Infinitesimal deformations of complex surfaces with boundary. **97f:32017**

Items with secondary classifications in 32G05

Kontsevich, M. L. Homological algebra of mirror symmetry. **97f:32040**

32G07 Deformations of special (e.g. CR) structures

Bland, John (*with* Epstein, C. L.) Embeddable CR-structures and deformations of pseudoconvex surfaces. I. Formal deformations. (English summary) **97c:32021**
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Sundararaman, D. Deformation theories and differential graded Lie algebras. **97g:32016**
Tang, Puqi Regularity and extremality of quasiconformal homeomorphisms on CR 3-manifolds. (English summary) **97h:32029**

Items with secondary classifications in 32G07

Barletta, Elisabetta On the sections of a CR-bundle over a foliation with complex leaves. (Italian summary) **97k:32014**
Buchweitz, Ragnar-Olaf (*with* Millson, John J.) CR-geometry and deformations of isolated singularities. (English summary) **97g:32045**
Daskalopoulos, Georgios D. (*with* Wentworth, Richard A.) Factorization of rank two theta functions. II. Proof of the Verlinde formula. **97f:32018**
Flondor, Paul (*with* Pascu, Eugen) Some compact tm-manifolds of small type. **97h:57048**
Millson, John J. *see* **Buchweitz, Ragnar-Olaf, 97g:32045**
Pascu, Eugen *see* **Flondor, Paul, 97h:57048**
Suwa, Tatsuo Unfoldings of codimension one complex analytic foliation singularities. (English summary) **97a:32041**
Wentworth, Richard A. *see* **Daskalopoulos, Georgios D., 97f:32018**

32G08 Deformations of fiber bundles

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Černe, Miran Analytic discs attached to a generating CR-manifold. (English summary) **97d:32008**

Toma, Matei Stable bundles on non-algebraic surfaces giving rise to compact moduli spaces. (English and French summaries) **97f:32021**

32G10 Deformations of submanifolds and subspaces

Gigante, Giuliana (*with* Tomassini, Adriano) $G_{m,h}$-bundles over foliations with complex leaves. **97c:32022**

Merkulov, S. A. (*with* Pedersen, Henrik) Projective structures on moduli spaces of compact complex hypersurfaces. (English summary) **97d:32028**

Pedersen, Henrik *see* **Merkulov, S. A., 97d:32028**

Tomassini, Adriano *see* **Gigante, Giuliana, 97c:32022**

Tsuboi, Syōji Locally stable holomorphic maps and their application to a global moduli problem for some kinds of analytic subvarieties. **97m:32030**

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Cassa, Antonio Reconstructing space-time from world-lines of charged particles. (English summary) **97c:53111**

32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10.} [see also 14H15, 14J15]

Arés-Gastesi, Pablo *see* **Biswas, Indranil; et al., 97m:32031**

Biswas, Indranil (*with* Arés-Gastesi, Pablo; Govindarajan, Suresh) Parabolic Higgs bundles and Teichmüller spaces for punctured surfaces. (English summary) **97m:32031**

Bradlow, Steven B. (*with* Daskalopoulos, Georgios D.; Wentworth, Richard A.) Birational equivalences of vortex moduli. (English summary) **97c:32023**

Daskalopoulos, Georgios D. (*with* Wentworth, Richard A.) Factorization of rank two theta functions. II. Proof of the Verlinde formula. **97f:32018**

— *see also* **Bradlow, Steven B.; et al., 97c:32023**

Govindarajan, Suresh *see* **Biswas, Indranil; et al., 97m:32031**

Kaddar, Mohamed Classe fondamentale relative en cohomologie de Deligne et application. [Relative fundamental class in Deligne cohomology and application] **97k:32029**

Nakajima, Hiraku Hyper-Kähler structures on moduli spaces of parabolic Higgs bundles on Riemann surfaces. **97k:32030**

Nasatyr, Emile Ben (*with* Steer, Brian) Orbifold Riemann surfaces and the Yang-Mills-Higgs equations. **97f:32019**

Okonek, Christian (*with* Teleman, Andrei) The coupled Seiberg-Witten equations, vortices, and moduli spaces of stable pairs. **97a:32012**

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Steer, Brian *see* **Nasatyr, Emile Ben, 97f:32019**

Subramanian Moosath, K. S. (*with* Sitaramayya, M.) Flat $GL(2,\mathbf{C})$-bundles over compact Kähler manifolds. (English summary) **97m:32032**

Teleman, Andrei *see* **Okonek, Christian, 97a:32012**

Toma, Matei Stable bundles on non-algebraic surfaces giving rise to compact moduli spaces. (English and French summaries) **97f:32021**

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Items with secondary classifications in 32G13

Daskalopoulos, Georgios D. (*with* Uhlenbeck, Karen; Wentworth, Richard A.) Moduli of extensions of holomorphic bundles on Kähler manifolds. (English summary) **97a:32033**

De Concini, Corrado (*with* Procesi, Claudio) Wonderful models of subspace arrangements. **97k:14013**

Huebschmann, Johannes Poisson geometry of certain moduli spaces for bundles on a surface. **97k:58033**

— Poisson geometry of certain moduli spaces. **97h:58030**

Jeffrey, Lisa C. (*with* Kirwan, Frances C.) Intersection pairings in moduli spaces of holomorphic bundles on a Riemann surface. (English summary) **97i:14008**

— (*with* Weitsman, Jonathan) Toric structures on the moduli space of flat connections on a Riemann surface. II. Inductive decomposition of the moduli space. **97m:58027**

Kapovich, M. È. (*with* Millson, John J.) On the deformation theory of representations of fundamental groups of compact hyperbolic 3-manifolds. (English summary) **97h:57029**

Kirwan, Frances C. *see* **Jeffrey, Lisa C., 97i:14008**

Lübke, Martin (*with* Teleman, Andrei) ★ The Kobayashi-Hitchin correspondence. **97h:32043**

Millson, John J. *see* **Kapovich, M. È., 97h:57029**

Moore, Gregory W. Two-dimensional Yang-Mills theory and topological field theory. **97h:58033**

Procesi, Claudio *see* **De Concini, Corrado, 97k:14013**

Scheinost, Peter (*with* Schottenloher, Martin) Metaplectic quantization of the moduli spaces of flat and parabolic bundles. **97m:14012**

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Takakura, Tatsuru Degeneration of Riemann surfaces and intermediate polarization of the moduli space of flat connections. (English summary) **97g:58070**

Teleman, Andrei *see* **Lübke, Martin, 97h:32043**

Tsuboi, Syōji Locally stable holomorphic maps and their application to a global moduli problem for some kinds of analytic subvarieties. **97m:32030**

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32G15 Moduli of Riemann surfaces, Teichmüller theory [see also 14H15, 30Fxx]

Biswas, Indranil (*with* Nag, Subhashis; Sullivan, Dennis P.) Determinant bundles, Quillen metrics and Mumford isomorphisms over the universal commensurability Teichmüller space. **97h:32030**

Earle, Clifford J. (*with* Gardiner, Frederick P.) Teichmüller disks and Veech's $\mathcal{F}$-structures. (English summary) **97k:32031**

Gardiner, Frederick P. *see* **Earle, Clifford J., 97k:32031**

Habermann, Lutz (*with* Jost, Jürgen) Riemannian metrics on Teichmüller space. (English summary) **97a:32013**

Hidalgo, Rubén A. The noded Schottky space. (English summary) **97h:32031**

Jing, Peidong Non-differentiability of the Teichmüller cometric in infinite-dimensional Teichmüller spaces. **97b:32018**

Jost, Jürgen *see* **Habermann, Lutz, 97a:32013**

Kaimanovich, Vadim A. (*with* Masur, Howard) The Poisson boundary of the mapping class group and of Teichmüller space. (English summary) **97a:32014**

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— *see also* **Aspinwall, Paul S., 97d:32049; Greene, Brian R.; et al., 97i:81108; Aspinwall, Paul S., 97i:81128; Bershadsky, M.; et al., 97j:81240; Aspinwall, Paul S.; et al., (97d:00024); Candelas, Philip; et al., (97d:00024)** *and* **Greene, Brian R.; et al., (97d:00024)**

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Natanzon, S. M. *see* **Monastyrskiĭ, M. I., 97h:81220**

Nekrasov, N. A. *see* **Losev, A. S.; et al., 97i:81150**

Ooguri, Hirosi Holomorphicity and non-holomorphicity in $N = 2$ supersymmetric field theories. **97a:81230**

de la Ossa, Xenia C. *see* **Candelas, Philip; et al., (97e:81002)** *and* **(97d:00024)**

Parkes, Linda *see* **Candelas, Philip; et al., (97e:81002)**

Plesser, M. Ronen *see* **Greene, Brian R.; et al., (97d:00024)**

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Roan, Shi-shyr Mirror symmetry of elliptic curves and Ising model. (English summary) **97m:14035**

Ryang, Shijong Topology changing transitions in supersymmetric linear σ-models. (English summary) **97a:81232**

Sabra, Wafic A. (*with* Thomas, Steven; Vanegas, N.) Special geometry and twisted moduli in orbifold theories with continuous Wilson lines. (English summary) **97e:81123**

Sadov, V. A. *see* **Bershadsky, M.; et al., 97j:81240**

Sato, Hitoshi Dual polyhedra, mirror symmetry and Ginzburg-Landau orbifolds. (English summary) **97e:14053**

Schimmrigk, Rolf Mirror symmetry and string vacua from a special class of Fano varieties. (English summary) **97e:32031**

Shatashvili, S. L. *see* **Losev, A. S.; et al., 97i:81150**

(Shcherbak, I. G.) *see* **Atiyah, Michael Francis, 97c:57005**

Soriani, Paolo *see* **Fré, Pietro, 97f:81001**

Stieberger, S. *see* **Mayr, Peter, 97a:81172**

Sugiyama, Katsuyuki A two parameter family of the Calabi-Yau d-fold. (English summary) **97f:32021**

Sun, Yi *see* **Jinzenji, Masao, 97f:14052**

Thomas, Steven *see* **Sabra, Wafic A.; et al., 97e:81123**

Vafa, Cumrun (*with* Witten, Edward) Dual string pairs with $N = 1$ and $N = 2$ supersymmetry in four dimensions. (English summary) **97i:81124**

— *see also* **Morrison, David R., 97g:81060a; 97g:81060b; Greene, Brian R.; et al., 97i:81108** *and* **Bershadsky, M.; et al., 97j:81240**

Vanegas, N. *see* **Sabra, Wafic A.; et al., 97e:81123**

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— *see also* **Vafa, Cumrun, 97i:81124**

32G99 None of the above, but in this section

Items with secondary classifications in 32G99

Bauer, Michel (*with* Itzykson, C.) Triangulations. (French) **97a:14027**

Cerveau, D. (*with* Lins Neto, A.) Irreducible components of the space of holomorphic foliations of degree two in $\mathbf{CP}(n)$, $n \geq 3$. (English summary) **97i:32039**

Itzykson, C. *see* **Bauer, Michel, 97a:14027**

Lins Neto, A. *see* **Cerveau, D., 97i:32039**

32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

Baouendi, M. S. (*with* Huang, Xiao Jun; Rothschild, Linda Preiss) Regularity of CR mappings between algebraic hypersurfaces. **97c:32028**
Chen, Hong Bin Univalence criteria for holomorphic mappings on the unit ball in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **97m:32036**
Chern, Shiing Shen (*with* Ji, Shanyu) On the Riemann mapping theorem. (English summary) **97m:32037**
De Fabritiis, Chiara Commuting holomorphic functions and hyperbolic automorphisms. (English summary) **97b:32023**
Efimov, A. M. A generalization of the Wong-Rosay theorem for the unbounded case. (Russian. Russian summary) **97d:32030**
Eremenko, Alexandre (*with* Rubel, Lee A.) The arithmetic of entire functions under composition. **97m:32038**
FitzGerald, C. H. (*with* Gong, Sheng) The locally biholomorphic Bloch and Marden constants in several complex variables. (English summary) **97j:32017**
Fornæss, John Erik (*with* Sibony, Nessim) Holomorphic symplectomorphisms in $\mathbf{C}^{2p}$. **97b:32024**
Gong, Sheng The Bloch constant of locally biholomorphic mappings on bounded symmetric domains. (English summary) **97k:32034**
— *see also* **Yu, Qihuang, 97e:32026; 97i:32028** *and* **FitzGerald, C. H., 97j:32017**
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Kohr, Gabriela Partial differential subordinations for holomorphic mappings on some domains in $\mathbf{C}^n$. (English summary) **97b:32025**
— (*with* Kohr-Ile, Mirela) Some sufficient criteria of univalency in $\mathbf{C}^n$. (English summary) **97b:32026**
— (*with* Liczberski, Piotr) On some sufficient conditions for univalence in $\mathbf{C}^n$. **97f:32024**
— (*with* Pintea, Cornel) An extension of Jack's-Miller's-Mocanu's lemma for holomorphic mappings defined on some domains in $\mathbf{C}^n$. (English summary) **97f:32027**
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Ma, Jianguo *see* **Ren, Fu Yao, 97e:32025**
McDonald, John N. Holomorphic mappings into convex subsets of $\mathbf{C}^n$. (English summary) **97k:32035**
Nan, Lai Shun A Schwarz lemma for holomorphic mappings. (Chinese. Chinese summary) **97b:32027**
Pintea, Cornel *see* **Kohr, Gabriela, 97f:32027**
Ren, Fu Yao (*with* Ma, Jianguo) Quasiconformal extension of biholomorphic mappings of several complex variables. (English and Chinese summaries) **97e:32025**
Rothschild, Linda Preiss *see* **Baouendi, M. S.; et al., 97c:32028**
Rubel, Lee A. *see* **Eremenko, Alexandre, 97m:32038**
Shiffman, Bernard Synthetic projective geometry and Poincaré's theorem on automorphisms of the ball. **97h:32033**
Sibony, Nessim *see* **Fornæss, John Erik, 97b:32024**
Tsurumi, Kazuyuki Radial growth of starlike holomorphic mappings in the unit ball in $\mathbf{C}^n$. (Japanese) (*see* **97i:00016**)
Yu, Qihuang (*with* Gong, Sheng) The Schwarzian derivative in $\mathbf{C}^n$. (English summary) **97i:32028**
— (*with* Gong, Sheng) The Schwarzian derivative of $\mathbf{C}^n$. **97e:32026**
Zampieri, Gaetano *see* **Gorni, Gianluca, 97g:32024**

Items with secondary classifications in 32H02

Buzzard, Gregery T. (*with* Fornæss, John Erik) Complete holomorphic vector fields and time-1 maps. **97f:32046**
Do Duc Thai Extending holomorphic maps through pluri-polar sets in high dimension. (English summary) **97c:32017**
Fornæss, John Erik *see* **Buzzard, Gregery T., 97f:32046**
Forstneric, Franc (*with* Globevnik, Josip; Rosay, Jean-Pierre) Nonstraightenable complex lines in $\mathbf{C}^2$. **97b:32033**
Globevnik, Josip *see* **Forstneric, Franc; et al., 97b:32033**
Graham, Ian (*with* Varolin, Dror) Bloch constants in one and several variables. (English summary) **97f:30006**
Huong, Nguyen Thi Le Generalization of the Riemann theorem on the extension of bounded holomorphic maps. (English summary) **97e:32010**
Joseph, James E. (*with* Kwack, Myung H.) Some classical theorems and families of normal maps in several complex variables. (English summary) **97d:32001**
Kwack, Myung H. *see* **Joseph, James E., 97d:32001**
Rosay, Jean-Pierre *see* **Forstneric, Franc; et al., 97b:32033**
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Winiarski, Tadeusz Estimation of growth of dominating mappings via Gröbner bases. (English summary) **97g:14015**

32H04 Meromorphic mappings

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Kaliman, Shulim Some facts about Eisenman intrinsic measures. II. **97b:32031**

32H10 Bergman kernel function, representative domains

Attioui, Abdelali Version réelle de la conjecture de Ramadanov. (English and French summaries) [Real version of the Ramadanov conjecture] **97d:32031**
Catlin, David W. (*with* D'Angelo, John P.) A stabilization theorem for Hermitian forms and applications to holomorphic mappings. **97f:32025**
Chen, So Chin Real analytic regularity of the Bergman kernel function. (English summary) **97b:32028**
Cho, Hong Rae Stability of the Bergman kernel function on pseudoconvex domains in $\mathbf{C}^n$. (English summary) **97i:32029**
Cho, Sanghyun Estimates of the Bergman kernel function on certain pseudoconvex domains in $\mathbf{C}^n$. **97k:32036**
— A mapping property of the Bergman projection on certain pseudoconvex domains. (English summary) **97h:32034**
Christ, Michael The Szegő projection need not preserve global analyticity. **97e:32027**
D'Angelo, John P. *see* **Catlin, David W., 97f:32025**
Francsics, Gábor (*with* Hanges, Nicholas) The Bergman kernel of complex ovals and multivariable hypergeometric functions. (English summary) **97m:32039**
Gong, Sheng *see* **Zheng, Xue An, 97b:32030a** *and* **97b:32030b**
Hanges, Nicholas *see* **Francsics, Gábor, 97m:32039**
Haslinger, Friedrich Szegő kernels for certain unbounded domains in $\mathbf{C}^2$. (English summary) **97f:32026**
Hyb, Wojciech Bergman function, Genchev transform and L^2-angles for multidimensional tubes. **97i:32030**
Kamimoto, Joe On the non-analytic examples of Christ and Geller. **97g:32025**
Kanemaru, Tadayoshi A remark on a distortion theorem in several complex variables. (English summary) **97b:32029**
Kim, Kang-Tae (*with* Yu, Jiye) Boundary behavior of the Bergman curvature in strictly pseudoconvex polyhedral domains. (English summary) **97k:32037**
Krantz, Steven G. (*with* Yu, Jiye) On the Bergman invariant and curvatures of the Bergman metric. **97g:32026**
Tong, Wu Bergman kernel functions and the full group of holomorphic automorphisms of a class of Reinhardt domains. (Chinese. English and Chinese summaries) **97f:32027**
Yamazaki, Susumu Singularities of the Bergman kernel for a two-dimensional pseudoconvex tube domain with corners. (English summary) **97a:32021**
— Singularities of the Bergman kernel for a two-dimensional pseudoconvex tube domain with corners. **97f:32028**
Yu, Jiye *see* **Krantz, Steven G., 97g:32026** *and* **Kim, Kang-Tae, 97k:32037**
Zheng, Xue An (*with* Gong, Sheng) Reinhardt domains. II. **97b:32030b**
— (*with* Gong, Sheng) On Reinhardt domains. II. (Chinese) **97b:32030a**

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Bagchi, Bhaskar (*with* Misra, Gadadhar) Homogeneous tuples of multiplication operators on twisted Bergman spaces. (English summary) **97e:47042**
Engliš, Miroslav Asymptotic behaviour of reproducing kernels of weighted Bergman spaces. (English summary) **97k:46033**
Kisil', Vladimir V. Integral representations and coherent states. (English summary) **97b:22012**
McNeal, Jeffery D. On large values of L^2 holomorphic functions. **97e:32004**
Misra, Gadadhar *see* **Bagchi, Bhaskar, 97e:47042**
Pevsner, Michel Espace de Bergman d'un semi-groupe complexe. (English and French summaries) [Bergman space of a complex semigroup] **97b:22015**
Ramirez de Arellano, Enrique (*with* Shapiro, M. V.; Vasilevskiĭ, N. L.) The hyperholomorphic Bergman projector and its properties. (English summary) **97f:30067**
Shapiro, M. V. *see* **Ramirez de Arellano, Enrique; et al., 97f:30067**
Vasilevskiĭ, N. L. *see* **Ramirez de Arellano, Enrique; et al., 97f:30067**

32H15 Invariant metrics and pseudodistances

Cheung, C. K. (*with* Kim, Kang-Tae) Analysis of the Wu metric. II. The case of non-convex Thullen domains. (English summary) **97f:32029**
Faran, James J., V The equivalence problem for complex Finsler Hamiltonians. (English summary) **97f:32030**
Kaliman, Shulim Some facts about Eisenman intrinsic measures. II. **97b:32031**
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Kobayashi, Shoshichi A new relative invariant distance and applications. **97h:32035**
Pflug, Peter (*with* Zwonek, Włodzimierz) The Kobayashi metric for non-convex complex ellipsoids. (English summary) **97a:32022**
Venturini, Sergio The Kobayashi metric on complex spaces. **97c:32029**
Vigué, Jean-Pierre Sur les domaines hyperboliques pour la distance intégrée de Carathéodory. (English and French summaries) [Hyperbolic domains for the integrated Carathéodory distance] **97f:32031**
Yasuoka, Takashi A general Schwarz lemma on Kähler CH manifolds. (English summary) **97a:32023**
Zwonek, Włodzimierz Carathéodory balls in convex complex ellipsoids. (English summary) **97g:32027**
— A note on the Kobayashi-Royden metric for real ellipsoids. (English summary) **97c:32030**
— *see also* **Pflug, Peter, 97a:32022**

Items with secondary classifications in 32H15

Cherry, William A. A non-Archimedean analogue of the Kobayashi semi-distance and its non-degeneracy on abelian varieties. **97b:32049**
Cho, Sanghyun A mapping property of the Bergman projection on certain pseudoconvex domains. (English summary) **97h:32034**
Gigante, Giuliana (*with* Tomassini, Giuseppe) M-hyperbolicity, evenness, and normality. **97a:32024**
— (*with* Tomassini, Giuseppe; Venturini, Sergio) M-hyperbolic real subsets of complex spaces. (English summary) **97d:32032**
Jing, Peidong Amenability, Poincaré series operator and Teichmüller distance. (English summary) **97b:30059**
Krantz, Steven G. (*with* Yu, Jiye) On the Bergman invariant and curvatures of the Bergman metric. **97g:32026**
Kwack, Myung H. ★ Families of normal maps in several variables and classical theorems in complex analysis. **97f:32033**

Masuda, Kazuo (*with* Noguchi, Junjiro) A construction of hyperbolic hypersurface of $\mathbf{P}^n(\mathbf{C})$. **97a:32025**
Noguchi, Junjiro *see* **Masuda, Kazuo**, **97a:32025**
Tomassini, Giuseppe *see* **Gigante, Giuliana**, **97a:32024** *and* **97d:32032**
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Yu, Jiye *see* **Krantz, Steven G.**, **97g:32026**

32H20 Hyperbolic complex manifolds

Buzzard, Gregery T. (*with* Fornæss, John Erik) An embedding of $\mathbf{C}$ in $\mathbf{C}^2$ with hyperbolic complement. **97k:32038**
Chen, Ten Ging (*with* Lin, C. G.) Measure hyperbolicity and convexity. (English summary) **97b:32032**
El Goul, Jawher Algebraic families of smooth hyperbolic surfaces of low degree in $\mathbf{P}^3_{\mathbf{C}}$. (English summary) **97k:32039**
Fornæss, John Erik *see* **Buzzard, Gregery T.**, **97k:32038**
Gigante, Giuliana (*with* Tomassini, Giuseppe) M-hyperbolicity, evenness, and normality. **97a:32024**
— (*with* Tomassini, Giuseppe; Venturini, Sergio) M-hyperbolic real subsets of complex spaces. (English summary) **97d:32032**
Hersonsky, Sa'ar (*with* Paulin, Frédéric) On the volumes of complex hyperbolic manifolds. **97h:32036**
Kim, Jong-Jin (*with* Rho, Sok) Exhaustion properties of hyperbolic manifolds. (English summary) **97k:32040**
Lin, C. G. *see* **Chen, Ten Ging**, **97b:32032**
Masuda, Kazuo (*with* Noguchi, Junjiro) A construction of hyperbolic hypersurface of $\mathbf{P}^n(\mathbf{C})$. **97a:32025**
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Ru, Min Geometric and arithmetic aspects of $\mathbf{P}^n$ minus hyperplanes. **97e:32031**
Siu, Yum-Tong Hyperbolicity problems in function theory. **97f:32032**
— (*with* Yeung, Sai-Kee) A generalized Bloch's theorem and the hyperbolicity of the complement of an ample divisor in an abelian variety. **97g:32028**
Tomassini, Giuseppe *see* **Gigante, Giuliana**, **97a:32024** *and* **97d:32032**
Venturini, Sergio *see* **Gigante, Giuliana; et al.**, **97d:32032**
Yeung, Sai-Kee *see* **Siu, Yum-Tong**, **97g:32028**

Items with secondary classifications in 32H20

Joseph, James E. (*with* Kwack, Myung H.) The topological nature of two Noguchi theorems on sequences of holomorphic mappings between complex spaces. (English summary) **97a:32026**
Kobayashi, Shoshichi A new relative invariant distance and applications. **97h:32035**
Kodama, Akio A characterization of certain domains with good boundary points in the sense of Greene-Krantz. III. **97i:32001**
Kwack, Myung H. ★ Families of normal maps in several variables and classical theorems in complex analysis. **97f:32033**
— *see also* **Joseph, James E.**, **97a:32026**
Sandler, Hanna Distance formulas in complex hyperbolic space. (English summary) **97a:51029**
Siu, Yum-Tong Construction of holomorphic sections of bundles. **97e:32034**
— (*with* Yeung, Sai-Kee) Hyperbolicity of the complement of a generic smooth curve of high degree in the complex projective plane. **97e:32028**
Vigué, Jean-Pierre Sur les domaines hyperboliques pour la distance intégrée de Carathéodory. (English and French summaries) [Hyperbolic domains for the integrated Carathéodory distance] **97f:32031**
Winkelmann, Jörg Semicontinuity results for the topology of taut manifolds. **97m:32014**
Wong, Bun On some Chern polynomials of a compact complex manifold covered by a bounded domain. (English summary) **97e:32035**
Xu, Geng On the complement of a generic curve in the projective plane. (English summary) **97d:14012**
Yeung, Sai-Kee *see* **Siu, Yum-Tong**, **97e:32028**
Zwonek, Włodzimierz Automorphism group of some special domain in $\mathbf{C}^n$. (English summary) **97i:32043**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Eremenko, Alexandre Holomorphic curves omitting five planes in projective space. (English summary) **97m:32040**
Joseph, James E. (*with* Kwack, Myung H.) The topological nature of two Noguchi theorems on sequences of holomorphic mappings between complex spaces. (English summary) **97a:32026**
Kwack, Myung H. ★ Families of normal maps in several variables and classical theorems in complex analysis. **97f:32033**
— *see also* **Joseph, James E.**, **97a:32026**
Siu, Yum-Tong (*with* Yeung, Sai-Kee) Hyperbolicity of the complement of a generic smooth curve of high degree in the complex projective plane. **97e:32028**
Toda, Nobushige On holomorphic curves of infinite order with maximal deficiency sum. (English summary) **97c:32032**
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Ashline, George L. The defect relation of meromorphic maps on parabolic manifolds. (English summary) **97i:32031**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Ashline, George L. The defect relation of meromorphic maps on parabolic manifolds. (English summary) **97i:32031**
Atsuji, Atsushi Nevanlinna theory via stochastic calculus. (English summary) **97h:32037**
Boutabaa, Abdelbaki Sur les courbes holomorphes p-adiques. (English and French summaries) [On p-adic holomorphic curves] **97g:32029**
Ounaies, Myriam Ensembles inévitables pour les applications holomorphes de $\mathbf{C}^n$ dans $\mathbf{C}^n$. (English and French summaries) [Unavoidable sets for holomorphic maps from $\mathbf{C}^n$ to $\mathbf{C}^n$] **97c:32033**
Russakovskii, A. M. (*with* Sodin, Mikhail) Equidistribution for sequences of polynomial mappings. (English summary) **97f:32034**
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Sodin, Mikhail *see* **Russakovskii, A. M.**, **97f:32034**
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— On subsets of $\mathbf{C}^{n+1}$ in general position. **97i:32032**
Tu, Zhen Han On the Julia directions of the value distribution of holomorphic curves in $\mathbf{P}^n(\mathbf{C})$. (English summary) **97d:32033**
Vojta, Paul On Cartan's theorem and Cartan's conjecture. (English summary) **97m:32041**
Ye, Zhuan A sharp form of Nevanlinna's second main theorem of several complex variables. **97c:32035**

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El Goul, Jawher Algebraic families of smooth hyperbolic surfaces of low degree in $\mathbf{P}^3_{\mathbf{C}}$. (English summary) **97k:32039**
Ru, Min Geometric and arithmetic aspects of $\mathbf{P}^n$ minus hyperplanes. **97e:32031**
— (*with* Vojta, Paul) Schmidt's subspace theorem with moving targets. **97g:11076**
Siu, Yum-Tong Hyperbolicity problems in function theory. **97f:32032**
— (*with* Yeung, Sai-Kee) A generalized Bloch's theorem and the hyperbolicity of the complement of an ample divisor in an abelian variety. **97g:32028**
Vojta, Paul *see* **Ru, Min**, **97g:11076**
Wang, Julie Tzu-Yueh The truncated second main theorem of function fields. (English summary) **97e:11074**
Yang, Chung-Chun Some recent developments in the factorization and uniqueness of meromorphic functions. **97b:30046**
Yeung, Sai-Kee *see* **Siu, Yum-Tong**, **97g:32028**

32H35 Proper mappings, finiteness theorems

Berteloot, F. (*with* Pinchuk, S. I.) Proper holomorphic mappings between bounded complete Reinhardt domains in $\mathbf{C}^2$. **97a:32027**
Chaouech, A. Une remarque sur un résultat de Y. Pan. (English and French summaries) [A remark on a result of Y. Pan] **97g:32030**
Diederich, Klas (*with* Pinchuk, S. I.) Proper holomorphic maps in dimension 2 extend. (English summary) **97g:32031**
Forstnerič, Franc (*with* Globevnik, Josip; Rosay, Jean-Pierre) Nonstraightenable complex lines in $\mathbf{C}^2$. **97b:32033**
— (*with* Globevnik, Josip; Stensønes, Berit) Embedding holomorphic discs through discrete sets. **97k:32041**
Globevnik, Josip *see* **Forstnerič, Franc; et al.**, **97b:32033** *and* **97k:32041**
Hayashimoto, Atsushi Application of the C^∞-extendability theorem for proper holomorphic mappings to the classification of the mappings between two pseudoellipsoids. (English summary) **97m:32042**
Huang, Xiao Jun Schwarz reflection principle in complex spaces of dimension two. **97m:32043**
— (*with* Pan, Yifei) Proper holomorphic self-mappings of Hartogs domains in $\mathbf{C}^n$. (English summary) **97j:32018**
— (*with* Pan, Yifei) Proper holomorphic mappings between real analytic domains in $\mathbf{C}^n$. **97f:32036**
Kizuka, Takashi Two examples concerning two theorems on local holomorphic mappings. **97j:32019**
Landucci, Mario (*with* Spiro, Andrea F.) Proper holomorphic maps between complete Reinhardt domains in $\mathbf{C}^2$. (English summary) **97a:32028**
Pan, Yifei A characterization of the finite multiplicity of a CR mapping. **97k:32042**
— *see also* **Huang, Xiao Jun**, **97f:32036** *and* **97j:32018**
Pinchuk, S. I. *see* **Berteloot, F.**, **97a:32027** *and* **Diederich, Klas**, **97g:32031**
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Rosay, Jean-Pierre *see* **Forstnerič, Franc; et al.**, **97b:32033**
Spiro, Andrea F. *see* **Landucci, Mario**, **97a:32028**
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Alexander, Herbert J. Gromov's method and Bennequin's problem. **97j:32007**
— *see also* **Rosay, Jean-Pierre**, **97j:32008**
Baouendi, M. S. (*with* Huang, Xiao Jun; Rothschild, Linda Preiss) Nonvanishing of the differential of holomorphic mappings at boundary points. **97d:32025**
Buzzard, Gregery T. (*with* Fornæss, John Erik) An embedding of $\mathbf{C}$ in $\mathbf{C}^2$ with hyperbolic complement. **97k:32038**
Cassou-Noguès, Pierrette (*with* Płoski, Arkadiusz) Un théorème des zéros effectif. (English summary) [An effective Nullstellensatz] **97m:32005**
Catlin, David W. (*with* D'Angelo, John P.) A stabilization theorem for Hermitian forms and applications to holomorphic mappings. **97f:32025**
D'Angelo, John P. *see* **Catlin, David W.**, **97f:32025**
Dini, G. (*with* Primicerio, Angela Selvaggi) Localization principle for a class of Reinhardt domains. (English summary) **97c:32003**
Fornæss, John Erik *see* **Buzzard, Gregery T.**, **97k:32038**
Huang, Xiao Jun *see* **Baouendi, M. S.**; **et al.**, **97d:32025**
Kosek, Marta Hölder continuity property of filled-in Julia sets in $\mathbf{C}^n$. (English summary) **97i:32013**
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32H40 Boundary regularity of holomorphic maps

Černe, Miran On the automorphisms of Siegel domains. (English summary) **97h:32038**
Coupet, Bernard (*with* Sukhov, A. B.) Sur la régularité des applications CR dans $\mathbf{C}^2$. (English and French summaries) [Regularity of CR mappings in $\mathbf{C}^2$] **97h:32039**
— (*with* Pinchuk, S. I.; Sukhov, A. B.) On boundary rigidity and regularity of holomorphic mappings. (English summary) **97k:32043**
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— *see also* **Rosay, Jean-Pierre, 97j:32008**
Diederich, Klas (*with* Pinchuk, S. I.) Proper holomorphic maps in dimension 2 extend. (English summary) **97g:32031**
Huang, Xiao Jun Schwarz reflection principle in complex spaces of dimension two. **97m:32043**
— (*with* Pan, Yifei) Proper holomorphic mappings between real analytic domains in $\mathbf{C}^n$. **97f:32036**
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Ren, Fu Yao (*with* Ma, Jianguo) Quasiconformal extension of biholomorphic mappings of several complex variables. (English and Chinese summaries) **97e:32025**
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32H50 Iteration problems

Berteloot, F. (*with* Lœb, J. J.) Holomorphic equivalence between basins of attraction in $\mathbf{C}^2$. (English summary) **97f:32037**
Briend, Jean-Yves Exposants de Liapounoff et points périodiques d'endomorphismes holomorphes de $\mathbf{CP}^k$. (English and French summaries) [Lyapunov exponents and periodic points for holomorphic endomorphisms of $\mathbf{CP}^k$] **97h:32040**
Chen, Zheng The semigroup of fractional iterates of holomorphic mappings in the unit ball B^n. (Chinese. English and Chinese summaries) **97g:32032**
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Fornæss, John Erik (*with* Sibony, Nessim) Complex dynamics in higher dimension. II. **97g:32033**
— (*with* Grellier, Sandrine) Exploding orbits of holomorphic structures. **97k:32045**
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Heinemann, Stefan-M. Julia sets for holomorphic endomorphisms of $\mathbf{C}^n$. (English summary) **97j:32020**
Kwon, Oh-Nam On the iteration of holomorphic mappings in $\mathbf{C}^2$. (English summary) **97k:32046**
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Suzuki, Masaaki A note on the Fatou set in complex projective space. (English summary) **97a:32029**
Zhang, Wenjun (*with* Ren, Fu Yao) Dynamics on weakly pseudoconvex domains. (English summary) **97d:32035**

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Balogh, Zoltan (*with* Vol'berg, A. L.) Normalization of almost conformal parabolic germs. (English summary) **97h:30051**
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Russakovskiĭ, A. M. (*with* Sodin, Mikhail) Equidistribution for sequences of polynomial mappings. (English summary) **97f:32034**
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32H99 None of the above, but in this section

Bashir, M. A. (*with* Bayoumi, Aboubakr) Fixed points of holomorphic mappings of a complex manifold. (English summary) **97b:32034**
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Poreda, Tadeusz Holomorphic solution of nonlinear generalized differential equation. (English and Polish summaries) **97f:32038**
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32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

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32J10 Algebraic dependence theorems

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32J15 Compact surfaces

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— A removable singularities theorem for families of ruled surfaces. **97k:32027**
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Moishezon, Boris (*with* Robb, Arthur; Teicher, Mina) On Galois covers of Hirzebruch surfaces. **97h:14054**
Okonek, Christian (*with* Teleman, Andrei) Quaternionic monopoles. (English and French summaries) **97c:57034**
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— On the complex geometry of twistor spaces. (English summary) **97g:32038**
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32J17 Compact 3-folds

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Strominger, Andrew (*with* Yau, Shing-Tung; Zaslow, Eric) Mirror symmetry is T-duality. (English summary) **97j:32022**
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Alessandrini, Lucia (*with* Bassanelli, Giovanni) Compact complex manifolds which are Kähler outside an analytic subset. (English summary) **97c:32037**
Avram, A. C. (*with* Candelas, Philip; Jančić, D.; Mandelberg, M.) On the connectedness of the moduli space of Calabi-Yau manifolds. (English summary) **97f:14038**
Bassanelli, Giovanni *see* **Alessandrini, Lucia, 97c:32037**
Berglund, Per (*with* Katz, Sheldon H.) Mirror symmetry constructions: a review. (English summary) **97k:14040**
Bertin, José (*with* Peters, Chris) Variations de structures de Hodge, variétés de Calabi-Yau et symétrie miroir. [Variations of Hodge structures, Calabi-Yau manifolds and mirror symmetry] (*see* **97e:14011**)
Bozhkov, Yuri The specific Hermitian geometry of certain three-folds. (Italian summary) **97c:32039**
— On the complex structures and Hermitian metrics of certain three-folds. **97e:32032**
Cadavid, A. C. (*with* Ceresole, A.; D'Auria, R.; Ferrara, Sergio) 11-dimensional supergravity compactified on Calabi-Yau threefolds. (English summary) **97b:83085**
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Chiang, Ti-Ming (*with* Greene, Brian R.; Gross, Mark; Kanter, Yakov) Black hole condensation and the web of Calabi-Yau manifolds. (English summary) **97g:32022**
Dais, Dimitrios I. ★ Enumerative combinatorics of invariants of certain complex threefolds with trivial canonical bundle. (English summary) **97d:14057**
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Morrison, David R. (*with* Vafa, Cumrun) Compactifications of F-theory on Calabi-Yau threefolds. I. (English summary) **97g:81060a**
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— *see also* **Morrison, David R.**, **97g:81060a** *and* **97g:81060b**
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32J18 Compact n-folds ($n \geq 4$)

Bogomolov, Fedor A. On Guan's examples of simply connected non-Kähler compact complex manifolds. (English summary) **97k:32048**
Brînzănescu, Vasile (*with* Ueno, Kenji) Néron-Severi group for torus quasi bundles over curves. **97f:32039**
Greene, Brian R. (*with* Morrison, David R.; Plesser, M. Ronen) Mirror manifolds in higher dimension [MR 96h:32038]. (English summary) (*see* **97d:00024**)
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— Examples of compact holomorphic symplectic manifolds which are not Kählerian. II. (English summary) **97i:32033**
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Aspinwall, Paul S. (*with* Gross, Mark) Heterotic-heterotic string duality and multiple $K3$ fibrations. (English summary) **97k:81110**
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Candelas, Philip (*with* de la Ossa, Xenia C.; Katz, Sheldon H.) Mirror symmetry for Calabi-Yau hypersurfaces in weighted $\mathbf{P}_4$ and extensions of Landau-Ginzburg theory. (English summary) **97a:32030**
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— The Calabi-Yau moduli and the Toda equations. (English summary) **97i:32025**
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Wong, Bun On some Chern polynomials of a compact complex manifold covered by a bounded domain. (English summary) **97e:32035**

32J20 Algebraicity criteria

Nemirovskiĭ, S. Yu. Stein domains on algebraic manifolds. (Russian) **97j:32023**

32J25 Transcendental methods of algebraic geometry [see also 14C30]

Angehrn, Urban (*with* Siu, Yum-Tong) Effective freeness and point separation for adjoint bundles. **97b:32036**
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Lasell, Brendon (*with* Ramachandran, Mohan) Observations on harmonic maps and singular varieties. (English summary) **97c:32036**
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Bertin, José (*with* Demailly, Jean-Pierre; Illusie, Luc; Peters, Chris) ★ Introduction à la théorie de Hodge. (French. English and French summaries) [Introduction to Hodge theory] **97e:14011**
Demailly, Jean-Pierre Théorie de Hodge L^2 et théorèmes d'annulation. [L^2 Hodge theory and vanishing theorems] (*see* **97e:14011**)
— Effective bounds for very ample line bundles. (English summary) **97a:32035**
— *see also* **Bertin, José; et al.**, **97e:14011**
Givental', A. B. Homological geometry. I. Projective hypersurfaces. **97c:14052**
Illusie, Luc Frobenius et dégénérescence de Hodge. (French summary) [Frobenius and Hodge degeneracy] (*see* **97e:14011**)
— *see also* **Bertin, José; et al.**, **97e:14011**
Peters, Chris *see* **Bertin, José; et al.**, **97e:14011**
Satake, Ichiro Toric bundles over abelian schemes. **97j:14061**
Siu, Yum-Tong Effective very ampleness. **97a:32036**
Zuo, Kang[1] Kodaira dimension and Chern hyperbolicity of the Shafarevich maps for representations of π_1 of compact Kähler manifolds. **97h:32042**

32J27 Compact Kähler manifolds: generalizations, classification

Alessandrini, Lucia (*with* Bassanelli, Giovanni) Compact complex manifolds which are Kähler outside an analytic subset. (English summary) **97c:32037**
Amorós, Jaume (*with* Burger, Marc; Corlette, Kevin; Kotschick, D.; Toledo, Domingo) ★ Fundamental groups of compact Kähler manifolds. (English summary) **97d:32037**
— On the Malcev completion of Kähler groups. **97g:32034**
Arapura, Donu Fundamental groups of smooth projective varieties. (English summary) **97d:32038**
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Burger, Marc *see* **Amorós, Jaume; et al.**, **97d:32037**
Carlson, James A. (*with* Toledo, Domingo) Quadratic presentations and nilpotent Kähler groups. **97c:32038**
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Demailly, Jean-Pierre (*with* Peternell, Thomas; Schneider, Michael Hellmut) Compact Kähler manifolds with Hermitian semipositive anticanonical bundle. (English summary) **97d:32039**
Fujiki, Akira Kähler quotient and equivariant cohomology. **97g:32035**
Kotschick, D. *see* **Amorós, Jaume; et al.**, **97d:32037**
Leung, Naichung Conan Seiberg Witten invariants and uniformizations. **97i:32035**
Libgober, Anatoly Automorphisms of desingularizations of quotients and equivariant McKay correspondence. (English and French summaries) **97i:32036**
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Pontecorvo, Massimiliano On the existence of compact scalar-flat Kähler surfaces. (English and Italian summaries) **97g:32036**
Salamon, S. M. Cohomology of Kähler manifolds with $c_1 = 0$. **97j:32024**
— On the cohomology of Kähler and hyper-Kähler manifolds. **97f:32042**
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Toledo, Domingo *see* **Carlson, James A.**, **97c:32038** *and* **Amorós, Jaume; et al.**, **97d:32037**
Tsuji, Hajime On the universal covering of projective manifolds of general type. **97e:32030**
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Borthwick, David (*with* Paul, T.; Uribe, A.) Legendrian distributions with applications to relative Poincaré series. **97a:58188**
Bryan, James A. (*with* Wentworth, Richard A.) The multi-monopole equations for Kähler surfaces. **97i:58021**
García-Prada, Oscar The Seiberg-Witten invariants and the vortex equations. (English summary) **97i:32037**
Kuksin, Sergei B. Double-periodic solutions of nonlinear Cauchy-Riemann equations. (English summary) **97a:58036**
Lasell, Brendon (*with* Ramachandran, Mohan) Observations on harmonic maps and singular varieties. (English summary) **97c:32036**
LeBrun, Claude Anti-self-dual metrics and Kähler geometry. **97h:53049**
Okonek, Christian (*with* Teleman, Andrei) The coupled Seiberg-Witten equations, vortices, and moduli spaces of stable pairs. **97a:32012**
Paul, T. *see* **Borthwick, David; et al.**, **97a:58188**
Ramachandran, Mohan *see* **Lasell, Brendon**, **97c:32036**
Real, Christophe Métriques d'Einstein-Kähler sur les variétés à première classe de Chern positive. (English and French summaries) [Einstein-Kähler metrics on manifolds with positive first Chern class] **97c:53108**
Silva, Alessandro $\partial\overline{\partial}$-closed positive currents and special metrics on compact complex manifolds. **97c:32014**
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Toma, Matei Stable bundles on non-algebraic surfaces giving rise to compact moduli spaces. (English and French summaries) **97i:32021**
Tsuboi, Kenji The lifted Futaki invariants and the Spin^c-Dirac operators. **97a:53109**
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Verbitskiĭ, M. S. Hyper-Kähler embeddings and holomorphic symplectic geometry. I. **97h:53053**
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Zheng, Fangyang Examples of non-positively curved Kähler manifolds. **97c:53110**

32J81 Applications to physics

Candelas, Philip (*with* de la Ossa, Xenia C.; Katz, Sheldon H.) Mirror symmetry for Calabi-Yau hypersurfaces in weighted $\mathbf{P}_4$ and extensions of Landau-Ginzburg theory. (English summary) **97a:32030**
Jinzenji, Masao (*with* Nagura, Masaru) Mirror symmetry and an exact calculation of an $(N-2)$-point correlation function on a Calabi-Yau manifold embedded in $\mathbf{CP}^{N-1}$. (English summary) **97b:32037**
Katz, Sheldon H. *see* **Candelas, Philip; et al.**, **97a:32030**
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Schimmrigk, Rolf Mirror symmetry in string theory and fractional transformations. (English summary) (*see* **97e:81002**)
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Aldazabal, G. (*with* Font, Anamaría; Ibáñez, L. E.; Quevedo, F.) Chains of $N = 2$, $D = 4$ heterotic/type II duals. (English summary) **97i:81095**

Antoniadis, Ignatios (*with* Partouche, H.) Exact monodromy group of $N = 2$ heterotic superstring. (English summary) **97e:81107**
Aspinwall, Paul S. An $N = 2$ dual pair and a phase transition. (English summary) **97f:81113**
— Some relationships between dualities in string theory. (English summary) **97i:81097**
— (*with* Louis, Jan) On the ubiquity of $K3$ fibrations in string duality. (English summary) **97f:81114**
— Enhanced gauge symmetries and Calabi-Yau threefolds. (English summary) **97g:81047**
— (*with* Gross, Mark) The SO(32) heterotic string on a $K3$ surface. (English summary) **97j:81234**
— (*with* Gross, Mark) Heterotic-heterotic string duality and multiple $K3$ fibrations. (English summary) **97k:81110**
— (*with* Greene, Brian R.; Morrison, David R.) Calabi-Yau moduli space, mirror manifolds and spacetime topology change in string theory [MR 95i:32027]. (English summary) (*see* **97d:00024**)
Batyrev, V. V. (*with* Dais, Dimitrios I.) Strong McKay correspondence, string-theoretic Hodge numbers and mirror symmetry. (English summary) **97e:14023**
Becker, Katrin (*with* Becker, Melanie; Strominger, Andrew) Fivebranes, membranes and non-perturbative string theory. (English summary) **97k:81112**
Becker, Melanie *see* **Becker, Katrin; et al., 97k:81112**
Berglund, Per (*with* Johnson, Clifford V.; Kachru, Shamit; Zaugg, Philippe) Heterotic coset models and (0, 2) string vacua. (English summary) **97h:81187**
— (*with* Henningson, Måns) On the elliptic genus and mirror symmetry. (English summary) **97j:58145**
— (*with* Katz, Sheldon H.) Mirror symmetry constructions: a review. (English summary) **97k:14040**
Bershadsky, M. (*with* Vafa, Cumrun; Sadov, V. A.) D-branes and topological field theories. (English summary) **97h:81213**
— (*with* Cecotti, Sergio; Ooguri, Hirosi; Vafa, Cumrun) Holomorphic anomalies in topological field theories [MR 94j:81254]. (English summary) (*see* **97d:00024**)
Bianchi, Massimo (*with* Ferrara, Sergio; Pradisi, Gianfranco; Sagnotti, Augusto; Stanev, Yassen S.) Twelve-dimensional aspects of four-dimensional $N = 1$ type I vacua. (English summary) **97j:81241**
Blumenhagen, Ralph (*with* Schimmrigk, Rolf; Wißkirchen, Andreas) The (0, 2) exactly solvable structure of chiral rings, Landau-Ginzburg theories and Calabi-Yau manifolds. (English summary) **97e:81134**
Candelas, Philip (*with* de la Ossa, Xenia C.; Green, Paul S.; Parkes, Linda) An exactly soluble superconformal theory from a mirror pair of Calabi-Yau manifolds. (English summary) (*see* **97e:81002**)
Cardoso, Gabriel Lopes (*with* Curio, Gottfried; Lüst, Dieter; Mohaupt, Thomas) Instanton numbers and exchange symmetries in $N = 2$ dual string pairs. (English summary) **97f:81116**
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Dabholkar, Atish (*with* Park, Jaemo) An orientifold of type-IIB theory on $K3$. (English summary) **97j:81248**
Dais, Dimitrios I. *see* **Batyrev, V. V., 97e:14023**
Dasgupta, Keshav (*with* Mukhi, Sunil) F-theory at constant coupling. (English summary) **97m:81037**
D'Auria, R. (*with* Ferrara, Sergio) Local and global properties of moduli space from Picard-Fuchs equations. (English summary) **97b:32022**
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32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

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32K15 Differentiable functions on analytic spaces, differentiable spaces [see also 58C25]

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32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic fiber bundles and generalizations

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32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

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32L15 Bundle convexity [see also 32F10]

Wong, Bun On some Chern polynomials of a compact complex manifold covered by a bounded domain. (English summary) **97e:32035**

32L20 Vanishing theorems

Demailly, Jean-Pierre Théorie de Hodge L^2 et théorèmes d'annulation. [L^2 Hodge theory and vanishing theorems] (*see* **97e:14011**)
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32L25 Twistor theory, double fibrations

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Horan, Robin (*with* Huggett, Stephen) Cohomology of elementary states in twistor conformal field theory. (English summary) **97h:32049**
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32L30 Holomorphic foliations [see also 58F18]

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— Meromorphic singular foliations on complex projective surfaces. (English summary) **97d:32044**
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— Équivalence de deux fibrations pour les feuilletages logarithmiques. (English summary) [Equivalence of two fibrations for logarithmic foliations] **97h:32053**
Kohler, Franz Erratum: "Singular holomorphic foliations on surfaces containing a global spherical shell" [Ann. Inst. Fourier (Grenoble) **45** (1995), no. 1, 161–182; MR 96a:32058]. (French) **97c:32041**
Lins Neto, A. *see* **Cerveau, D., 97i:32039**
Meziani, Rafik Classification analytique d'équations différentielles $y\,dy + \cdots = 0$ et espace de modules. (English and French summaries) [Analytic classification of differential equations $y\,dy + \cdots = 0$ and moduli spaces] **97g:32039**
Reguera, Ana José *see* **García, Julio, 97d:32045**
Reiffen, Hans-Jörg An application of a theorem of Huber in holomorphic foliation theory. **97b:32043**
Sad, Paulo *see* **Brunella, Marco, 97a:32038**
Saeki, Akihiro Foliations on complex spaces. **97b:32044**
— Some foliations on ruled surfaces. II. (English summary) **97e:32036**
— On some foliations on ruled surfaces of genus one. **97a:32039**
— Certain foliations on a ruled surface. (Japanese) (*see* **97m:58001**)
Scárdua, B. Azevedo Transversely affine and transversely projective holomorphic foliations. (English summary) **97k:32049**
Sebastiani, Marcos Solutions algébriques et intégrales premières des feuilletages analytiques sur les surfaces algébriques. [Algebraic solutions and first integrals of analytic foliations on algebraic surfaces] **97a:32040**
Soares, Márcio Gomes Invariant algebraic sets of foliations. **97c:32042**
— *see also* **Ballico, Edoardo, 97h:32050**
Suwa, Tatsuo Unfoldings of codimension one complex analytic foliation singularities. (English summary) **97a:32041**
Tomassini, Giuseppe Foliations with complex leaves. **97b:32045**

Items with secondary classifications in 32L30

Brunella, Marco On transversely holomorphic flows. I. **97j:58121**
Ghys, Étienne On transversely holomorphic flows. II. **97j:58122**
Gigante, Giuliana (*with* Tomassini, Adriano) $G_{m,k}$-bundles over foliations with complex leaves. **97c:32022**
Tomassini, Adriano *see* **Gigante, Giuliana, 97c:32022**

32L81 Applications to physics

Hitchin, N. J. Magnetic monopoles with Platonic symmetry. **97h:32054**

Items with secondary classifications in 32L81

Brylinski, Jean-Luc (*with* McLaughlin, Dennis) Holomorphic quantization and unitary representations of the Teichmüller group. **97d:32041**
Dahmen, H. D. (*with* Marculescu, S.; Portmann, T.) Topological Yang-Mills theory with two fermionic charges. A superfield approach on Kähler manifolds. (English summary) **97a:58025**
Gorodentsev, A. (*with* Leenson, M.) How to calculate the correlation function in twisted SYM $N = 2$, $N_f = 4$ QFT on a projective plane. (English summary) **97m:14009**
Leenson, M. *see* **Gorodentsev, A., 97m:14009**
Marculescu, S. *see* **Dahmen, H. D.; et al., 97a:58025**
McLaughlin, Dennis *see* **Brylinski, Jean-Luc, 97d:32041**
Portmann, T. *see* **Dahmen, H. D.; et al., 97a:58025**
Zaslow, Eric Solitons and helices: the search for a math-physics bridge. (English summary) **97c:81178**
Zucchini, Roberto Extrinsic Hermitian geometry of functional determinants for vector subbundles and the Drinfel'd-Sokolov ghost system. (English summary) **97d:58204**

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

Ahern, Patrick (*with* Forstneric, Franc; Varolin, Dror) Flows on $\mathbf{C}^2$ with polynomial time one map. (English summary) **97g:32040**
Bosio, Frédéric Actions holomorphes et localement libres de groupes de Lie abéliens. (English and French summaries) [Locally free holomorphic actions of complex abelian Lie groups] **97i:32040**
Buzzard, Gregery T. (*with* Fornæss, John Erik) Complete holomorphic vector fields and time-1 maps. **97f:32046**
Coupet, Bernard (*with* Sukhov, A. B.) On the boundary rigidity phenomenon for automorphisms of domains in $\mathbf{C}^n$. (English summary) **97a:32042**
Fornæss, John Erik *see* **Buzzard, Gregery T., 97f:32046**
Forstneric, Franc Actions of $(\mathbf{R}, +)$ and $(\mathbf{C}, +)$ on complex manifolds. **97i:32041**
— *see also* **Ahern, Patrick; et al., 97g:32040**
Fu, Siqi (*with* Isaev, Alexander V.; Krantz, Steven G.) Reinhardt domains with non-compact automorphism groups. (English summary) **97c:32043**
— (*with* Isaev, Alexander V.; Krantz, Steven G.) Examples of domains with non-compact automorphism groups. (English summary) **97f:32047**
Fujiki, Akira The fixed point set of $\mathbf{C}$ actions on a compact complex space. **97c:32044**
— Closures of orbits of $\mathbf{C}$ and $\mathbf{C}^*$ actions. **97h:32055**

Hajto, Zbigniew (*with* Wilk, Władysław) On the holomorphic actions of a complex Lie group on the Grassmannian manifold. (English summary) **97h:32056**
Isaev, Alexander V. *see* **Fu, Siqi; et al., 97c:32043** *and* **97f:32047**
Krantz, Steven G. *see* **Fu, Siqi; et al., 97c:32043** *and* **97f:32047**
Lerman, Eugene (*with* Sjamaar, Reyer) Reductive group actions on Kähler manifolds. **97c:32045**
Lescure, F. Exemples d'actions induites non résolubles sur la cohomologie de Dolbeault. [Examples of nonsolvable reduced actions on the Dolbeault cohomology] **97i:32042**
Myszewski, Jan M. On the structure of infinitesimal group of holomorphic automorphisms of an $(n-1)$-circular domain in $\mathbf{C}^n$. (English and Polish summaries) **97h:32057**
— On generators of automorphisms groups of $(N-1)$-circular domains in $\mathbf{C}^N$. (English summary) **97m:32047**
Sjamaar, Reyer *see* **Lerman, Eugene, 97c:32045**
Sukhov, A. B. *see* **Coupet, Bernard, 97a:32042**
Varolin, Dror *see* **Abern, Patrick; et al., 97g:32040**
Wilk, Władysław *see* **Hajto, Zbigniew, 97h:32056**
Winkelmann, Jörg Holomorphic functions on an algebraic group invariant under Zariski-dense subgroups. **97a:32043**
Zwonek, Włodzimierz Automorphism group of some special domain in $\mathbf{C}^n$. (English summary) **97f:32043**

Items with secondary classifications in 32M05

Boyer, Charles P. (*with* Galicki, Krzysztof; Mann, Benjamin M.) Hypercomplex structures on Stiefel manifolds. (English summary) **97e:53084**
Efimov, A. M. A generalization of the Wong-Rosay theorem for the unbounded case. (Russian. Russian summary) **97d:32030**
Galicki, Krzysztof *see* **Boyer, Charles P.; et al., 97e:53084**
Kaliman, Shulim Exotic structures on $\mathbf{C}^n$ and $\mathbf{C}^*$-action on $\mathbf{C}^3$. **97e:14058**
Kraft, Hanspeter (*with* Kutzschebauch, Frank) Equivariant affine line bundles and linearization. (English summary) **97h:14065**
Kutzschebauch, Frank *see* **Kraft, Hanspeter, 97h:14065**
Mann, Benjamin M. *see* **Boyer, Charles P.; et al., 97e:53084**
Oort, Frans (*with* Zarkhin, Yu. G.) Endomorphism algebras of complex tori. **97h:14063**
Sergeev, A. G. On invariant domains of holomorphy. (English and Polish summaries) **97i:32011**
Tong, Wu Bergman kernel functions and the full group of holomorphic automorphisms of a class of Reinhardt domains. (Chinese. English and Chinese summaries) **97f:32027**
Zaitsev, Dmitri Regularization of birational group operations in the sense of Weil. **97d:14074**
Zarkhin, Yu. G. *see* **Oort, Frans, 97h:14063**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Arbat·skiĭ, A. F. On the structure of groups of nonlinear automorphisms of (3, 3)-quadrics. (Russian. Russian summary) **97f:32048**
Dorfmeister, Josef Homogeneous Kähler and pseudo-Kähler manifolds. (English and Romanian summaries) **97h:32058**
Druetta, Maria J. Curvature of invariant metrics on Pyatetskii-Shapiro's generalized homogeneous domains. (English summary) **97b:32046**
Penney, Richard C. The Harish-Chandra realization for non-symmetric domains in $\mathbf{C}^n$. **97i:32044**

Items with secondary classifications in 32M10

Barberis, Maria Laura Hypercomplex structures on four-dimensional Lie groups. (English summary) **97f:53113**
Kasai, Shin-Ichi (*with* Kimura, Tatsuo; Otani, Shin-Ichi) A classification of simple weakly spherical homogeneous spaces. I. **97a:14056**
Kimura, Tatsuo *see* **Kasai, Shin-Ichi; et al., 97a:14056**
Loboda, A. V. On some invariants of tubular hypersurfaces in $\mathbf{C}^2$. (Russian. Russian summary) **97d:32024**
Onishchik, A. L. ★ Топология транзитивных групп преобразований. (Russian. English and Russian summaries) [Topology of transitive transformation groups] **97j:57057**
Otani, Shin-Ichi *see* **Kasai, Shin-Ichi; et al., 97a:14056**
Saito, Hiroshi[1] Classification of algebraic fields over prehomogeneous vector spaces. (Japanese) **97i:11037**
Sánchez, Cristián U. The index number of an R-space: an extension of a result of M. Takeuchi's. (English summary) **97e:53099**
Winkelmann, Jörg Holomorphic functions on an algebraic group invariant under Zariski-dense subgroups. **97a:32043**

32M12 Almost homogeneous manifolds and spaces [see also 14M17]

Items with secondary classifications in 32M12

Kimura, Tatsuo (*with* Ueda, Kosei; Yoshigaki, Takeshi) A classification of 3-simple prehomogeneous vector spaces of nontrivial type. **97e:20064**
Ueda, Kosei *see* **Kimura, Tatsuo; et al., 97e:20064**
Yoshigaki, Takeshi *see* **Kimura, Tatsuo; et al., 97e:20064**

32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

Arazy, J. (*with* Zhang, Gen Kai) Invariant mean value and harmonicity in Cartan and Siegel domains. (English summary) **97b:32047**
Dimou, G. New representation of a special non-symmetric homogeneous domain in $\mathbf{C}^n$, $n = 8$. **97c:32046**
Faraut, Jacques (*with* Gindikin, Simon G.) Pseudo-Hermitian symmetric spaces of tube type. **97i:32045**
Gindikin, Simon G. *see* **Faraut, Jacques, 97i:32045**
Parker, John R. Dirichlet polyhedra for parabolic cyclic groups in complex hyperbolic space. (English summary) **97b:32048**
Shimeno, Nobukazu Boundary value problems for the Shilov boundary of a bounded symmetric domain of tube type. (English summary) **97f:32049**
Wulan, Hasi Hardy-Littlewood theorems in mixed norm spaces on bounded symmetric domain of $\mathbf{C}^n$. (English summary) **97g:32041**
Yin, Wei Ping An involution of an exceptional Cartan domain and the bounded form of the domain. (Chinese. English and Chinese summaries) **97a:32044**
Zhang, Gen Kai Bloch constants of bounded symmetric domains. (English summary) **97i:32046**
— *see also* **Arazy, J., 97b:32047**
Zhu, Ke He Harmonic analysis on bounded symmetric domains. **97k:32050**

Items with secondary classifications in 32M15

Borthwick, David (*with* Leśniewski, Andrzej; Rinaldi, Maurizio) Notes on the structure of quantized Hermitian symmetric spaces. (English summary) **97f:46114**
Černe, Miran On the automorphisms of Siegel domains. (English summary) **97h:32038**
Chadli, Mohammed Domaine complexe associé à un espace symétrique de type Cayley. (English and French summaries) [Complex domain associated to a symmetric space of Cayley type] **97f:22022**
El Harchaoui, Mimoun Inversion de la transformation de Pompeiu locale dans les espaces hyperboliques réel et complexe: cas des deux boules. (English summary) [Inversion of the local Pompeiu transform in real and complex hyperbolic spaces: the case of two balls] **97e:43006**
Gindikin, Simon G. The holomorphic Cauchy-Szegő kernel for nonholomorphic discrete series representations of SU(2, 1). (English summary) **97a:22021**
Gong, Sheng The Bloch constant of locally biholomorphic mappings on bounded symmetric domains. (English summary) **97k:32034**
Gross, Kenneth I. Invariant theory for boundary components. (English summary) **97a:22013**
Hilgert, Joachim (*with* Neeb, Karl-Hermann) Compression semigroups of open orbits in complex manifolds. **97j:22013**
— (*with* Neeb, Karl-Hermann; Ørsted, Bent) Conal Heisenberg algebras and associated Hilbert spaces. **97d:22014**
Jiang, Qingtang Wavelet transform and orthogonal decomposition of L^2 space on the Cartan domain BDI $(q = 2)$. (English summary) **97h:22005**
Kaup, Wilhelm On real Cartan factors. (English summary) **97m:46109**
Krötz, Bernhard (*with* Neeb, Karl-Hermann) On hyperbolic cones and mixed symmetric spaces. (English summary) **97k:17007**
Leśniewski, Andrzej *see* **Borthwick, David; et al., 97f:46114**
Lu, Qi-Keng Real horo-hypercircle coordinate. **97k:43014**
Manivel, Laurent (*with* Snow, Dennis M.) A Borel-Weil theorem for holomorphic forms. **97h:32047**
Molchanov, V. F. Quantization on para-Hermitian symmetric spaces. **97k:22030**
Neeb, Karl-Hermann *see* **Hilgert, Joachim; et al., 97d:22014; 97j:22013** *and* **Krötz, Bernhard, 97k:17007**
Ørsted, Bent *see* **Hilgert, Joachim; et al., 97d:22014**
Ouyang, Caiheng α-Carleson measure and Bloch functions on bounded symmetric domains of $\mathbf{C}^n$. (English summary) **97b:32007**
Penney, Richard C. The Harish-Chandra realization for non-symmetric domains in $\mathbf{C}^n$. **97i:32044**
Rinaldi, Maurizio *see* **Borthwick, David; et al., 97f:46114**
Sankaran, G. K. Fundamental group of locally symmetric varieties. (English summary) **97b:14017**
Satake, Ichiro Toric bundles over abelian schemes. **97j:14061**
Shi, Jihuai D^l spaces on bounded symmetric domains of $\mathbf{C}^n$. (English summary) **97m:32011**
Snow, Dennis M. *see* **Manivel, Laurent, 97h:32047**
Zhu, Ke He Holomorphic Besov spaces on bounded symmetric domains. II. (English summary) **97e:46043**

32M99 None of the above, but in this section

Isaev, Alexander V. (*with* Krantz, Steven G.) On the boundary orbit accumulation set for a domain with noncompact automorphism group. **97m:32048**
Krantz, Steven G. *see* **Isaev, Alexander V., 97m:32048**

Items with secondary classifications in 32M99

De Fabritiis, Chiara Commuting holomorphic functions and hyperbolic automorphisms. (English summary) **97b:32023**
Kamishima, Yoshinobu Transformation groups on Heisenberg geometry. **97e:53046**

32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N05 General theory of automorphic functions of several complex variables

Stalker, John Automorphic functions on general domains in $\mathbf{C}^n$. **97i:32047**

32N10 Automorphic forms

Items with secondary classifications in 32N10

Borcherds, Richard E. The moduli space of Enriques surfaces and the fake Monster Lie superalgebra. (English summary) **97e:14051**

Breulmann, Stefan (*with* Helmke, Volker) The covolume of quaternion groups on the four-dimensional hyperbolic space. **97i:11051**
Gritsenko, V. A. (*with* Nikulin, Vyacheslav Valentinovich) $K3$ surfaces, Lorentzian Kac-Moody algebras and mirror symmetry. (English summary) **97e:14050**
Haverkamp, Klaus K. Hermitian Jacobi forms. **97d:11077**
Helmke, Volker *see* **Breulmann, Stefan, 97i:11051**
Jorgenson, Jay (*with* Todorov, Andreĭ Nikolov) A conjectured analogue of Dedekind's eta function for $K3$ surfaces. (English summary) **97a:11071**
Nikulin, Vyacheslav Valentinovich *see* **Gritsenko, V. A., 97e:14050**
Todorov, Andreĭ Nikolov *see* **Jorgenson, Jay, 97a:11071**

32N15 Automorphic functions in symmetric domains

Items with secondary classifications in 32N15

Barletta, Elisabetta (*with* Parrini, Carla) Bounded solutions for $\overline{\partial}$-problem in pseudo-Siegel domains. (English and Italian summaries) **97e:32019**
Borcherds, Richard E. The moduli space of Enriques surfaces and the fake Monster Lie superalgebra. (English summary) **97e:14051**
Gritsenko, V. A. (*with* Nikulin, Vyacheslav Valentinovich) $K3$ surfaces, Lorentzian Kac-Moody algebras and mirror symmetry. (English summary) **97e:14050**
Ibukiyama, Tomoyoshi On dimensions of automorphic forms and zeta functions of prehomogeneous vector space. **97e:11109**
Nikulin, Vyacheslav Valentinovich A remark on discriminants for moduli of $K3$ surfaces as sets of zeros of automorphic forms. (English summary) **97j:14039**
— *see also* **Gritsenko, V. A., 97e:14050**
Parrini, Carla *see* **Barletta, Elisabetta, 97c:32019**

32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

Berkovich, Vladimir G. Vanishing cycles for non-Archimedean analytic spaces. **97e:32037**
Cherry, William A. A non-Archimedean analogue of the Kobayashi semi-distance and its non-degeneracy on abelian varieties. **97b:32049**
de Jong, Aise Johan Étale fundamental groups of non-Archimedean analytic spaces. **97c:32047**

Items with secondary classifications in 32P05

Bosch, Siegfried (*with* Lütkebohmert, Werner; Raynaud, Michel) Formal and rigid geometry. IV. The reduced fibre theorem. **97e:11075**
— (*with* Lütkebohmert, Werner; Raynaud, Michel) Formal and rigid geometry. III. The relative maximum principle. **97e:11074**
Boussaf, Kamal (*with* Escassut, Alain) Composition of analytic elements and quasi-invertibility. (English summary) **97g:12010**
Boutabaa, Abdelbaki Sur les courbes holomorphes p-adiques. (English and French summaries) [On p-adic holomorphic curves] **97g:32029**
Escassut, Alain *see* **Boussaf, Kamal, 97g:12010**
Lipshitz, Leonard (*with* Robinson, Zachary) Rigid subanalytic subsets of the line and the plane. (English summary) **97e:14067**
Lütkebohmert, Werner *see* **Bosch, Siegfried; et al., 97e:11074** *and* **97e:11075**
Raynaud, Michel *see* **Bosch, Siegfried; et al., 97e:11074** *and* **97e:11075**
Robinson, Zachary *see* **Lipshitz, Leonard, 97e:14067**

32Sxx Singularities

32S05 Local singularities [see also 14B05]

Entov, Mikhail On the A-D-E classification of the simple singularities of functions. (English and French summaries) **97j:32028**
Il'yuta, G. G. Characterization of simple Coxeter-Dynkin diagrams. (Russian) **97d:32046**
Jiang, Guang Feng A note on the non-existence of negatively weighted derivations. (English summary) **97k:32051**
Manetti, Marco Algebraization of analytic curve germs passing through isolated surface singularities. **97h:32059**

Items with secondary classifications in 32S05

Barone-Netto, Angelo (*with* Gorni, Gianluca; Zampieri, Gaetano) Local extrema of analytic functions. (English summary) **97j:26017**
Gorni, Gianluca *see* **Barone-Netto, Angelo; et al., 97j:26017**
Risler, Jean-Jacques (*with* Trotman, David) Bi-Lipschitz invariance of the multiplicity. **97i:32049**
Trotman, David *see* **Risler, Jean-Jacques, 97i:32049**
Wall, Charles T. C. Weighted homogeneous complete intersections. (English summary) **97h:14002**
Xu, Yi-Jing (*with* Yau, Stephen S.-T.) Micro-local characterization of quasi-homogeneous singularities. (English summary) **97m:32049**
Yau, Stephen S.-T. *see* **Xu, Yi-Jing, 97m:32049**
Zampieri, Gaetano *see* **Barone-Netto, Angelo; et al., 97j:26017**

32S10 Invariants of analytic local rings

Fukui, Toshizumi (*with* Nuño Ballesteros, J. J.; Saia, Marcelo J.) Counting singularities in stable perturbations of map-germs. **97g:32042**
Goryunov, V. V. Vector fields on bifurcation varieties. **97b:32050**
Ishii, Shihoko Plurigenera of normal isolated singularities. **97a:32045**
Nuño Ballesteros, J. J. *see* **Fukui, Toshizumi; et al., 97g:32042**
Saia, Marcelo J. *see* **Fukui, Toshizumi; et al., 97g:32042**
Xu, Yi-Jing (*with* Yau, Stephen S.-T.) Micro-local characterization of quasi-homogeneous singularities. (English summary) **97m:32049**
Yau, Stephen S.-T. *see* **Xu, Yi-Jing, 97m:32049**

Items with secondary classifications in 32S10

Gaffney, Terence Multiplicities and equisingularity of ICIS germs. (English summary) **97b:32051**
Kutasov, D. (*with* Schwimmer, A.; Seiberg, Nathan) Chiral rings, singularity theory and electric-magnetic duality. (English summary) **97f:81154**
Schwimmer, A. *see* **Kutasov, D.; et al., 97f:81154**
Seiberg, Nathan *see* **Kutasov, D.; et al., 97f:81154**

32S15 Equisingularity (topological and analytic) [see also 14E15]

Gaffney, Terence Multiplicities and equisingularity of ICIS germs. (English summary) **97b:32051**
Henry, Jean-Pierre (*with* Merle, Michel) Fronces et doubles plis. [Pleats and double folds] **97g:32043**
Mawoussi, Yves Kodjo Saturation réelle à la Pham-Teissier d'un germe de courbe. (English and French summaries) [Real Pham-Teissier saturation of a germ of a curve] **97d:32047**
Merle, Michel *see* **Henry, Jean-Pierre, 97g:32043**

Items with secondary classifications in 32S15

Jaworski, Piotr On the versal discriminant of $J_{k,0}$ singularities. (English summary) **97a:32046**
Kabila, Abdelhak Problèmes d'équisingularité pour les formes de Pfaff. (English and French summaries) [Equisingularity problems for Pfaffian forms] **97d:32058**
du Plessis, Andrew (*with* Wall, Charles T. C.) ★ The geometry of topological stability. **97k:58024**
Wall, Charles T. C. *see* **du Plessis, Andrew, 97k:58024**
Zaharia, Alexandru On the bifurcation set of a polynomial function and Newton boundary. II. **97h:32061**

32S20 Global theory of singularities; cohomological properties [see also 14E15]

Aleksandrov, Aleksandr G. A formula of Hirzebruch and its generalizations. (English summary) **97c:32048**

Items with secondary classifications in 32S20

Aspinwall, Paul S. (*with* Morrison, David R.) Stable singularities in string theory. (English summary) **97d:32049**
Batyrev, V. V. (*with* Dais, Dimitrios I.) Strong McKay correspondence, string-theoretic Hodge numbers and mirror symmetry. (English summary) **97e:14023**
Blache, Raimund Chern classes and Hirzebruch-Riemann-Roch theorem for coherent sheaves on complex-projective orbifolds with isolated singularities. **97d:14015**
Dais, Dimitrios I. *see* **Batyrev, V. V., 97e:14023**
(Gross, Mark) *see* **Aspinwall, Paul S., 97d:32049**
Kulikov, Valentin S. Generalization of the relations between Brieskorn lattices to the case of nonisolated singularities. (Russian) **97d:32048**
Morrison, David R. *see* **Aspinwall, Paul S., 97d:32049**
Xiao, Er Jian Jet cohomology of isolated hypersurface singularities and spectral sequences. **97e:32039**

32S25 (Hyper-) surface singularities [see also 14J17]

Ebeling, Wolfgang On Coxeter-Dynkin diagrams of hypersurface singularities. **97j:32029**
Kulikov, Valentin S. Generalization of the relations between Brieskorn lattices to the case of nonisolated singularities. (Russian) **97d:32048**
Massey, David B. Milnor fibres of non-isolated hypersurface singularities. (English summary) **97c:32049**
— Prepolar deformations and a new Lê-Iomdine formula. (English summary) **97g:32044**
Pöppelmann, Thomas Geometrie von Konfliktvarietäten. [Geometry of conflict varieties] **97e:32038**
Xiao, Er Jian Jet cohomology of isolated hypersurface singularities and spectral sequences. **97e:32039**

Items with secondary classifications in 32S25

Behnke, Kurt (*with* Riemenschneider, Oswald) Quotient surface singularities and their deformations. (English summary) **97c:32050**
Briançon, J. (*with* Maisonobe, Ph.) Caractérisation géométrique de l'existence du polynôme de Bernstein relatif. [Geometric characterization of the existence of the relative Bernstein polynomial] **97d:32052**
Chmutov, S. V. Extremal distributions of critical points and critical values. (English summary) **97b:14044**
Lê Dũng Tráng Topology of complex singularities. **97e:32044**
Luengo, Ignacio (*with* Melle, Alejandro) A formula for the Milnor number. (English and French summaries) **97d:32054**
Maisonobe, Ph. *see* **Briançon, J., 97d:32052**
Melle, Alejandro *see* **Luengo, Ignacio, 97d:32054**
Oh, Kyungho The branching orders of a quasi-ordinary projection. **97b:32054**
Oka, Mutsuo[1] Geometry of plane curves via toroidal resolution. **97j:14059**
Riemenschneider, Oswald *see* **Behnke, Kurt, 97c:32050**
Röhr, A. A vanishing theorem for line bundles on resolutions of surface singularities. **97b:32040**
Yuzvinsky, Sergey Cohomology of the Brieskorn-Orlik-Solomon algebras. **97a:52023**

32S30 Deformations of singularities; vanishing cycles [see also 14B07]

Aspinwall, Paul S. (*with* Morrison, David R.) Stable singularities in string theory. (English summary) **97d:32049**

Behnke, Kurt (*with* Riemenschneider, Oswald) Quotient surface singularities and their deformations. (English summary) **97e:32050**

Buchweitz, Ragnar-Olaf (*with* Millson, John J.) CR-geometry and deformations of isolated singularities. (English summary) **97g:32045**

Damon, James Higher multiplicities and almost free divisors and complete intersections. (English summary) **97d:32050**

(Gross, Mark) *see* **Aspinwall, Paul S., 97d:32049**

Gusein-Zade, S. M. On calculation of Dynkin diagrams of some complete intersections. **97m:32050**

Il'yuta, G. G. Higher Bruhat orders and M-Morsifications. (Russian) **97f:32050**

— On q-monodromy groups of singularities. (Russian. Russian summary) **97f:32051**

Jaworski, Piotr On the versal discriminant of $J_{k,0}$ singularities. (English summary) **97a:32046**

de Jong, Theo Globalization of admissible deformations. **97e:32040**

Lando, S. K. Singularities of the differential forms of the complex degree and their deformations. (English summary) **97c:32051**

Millson, John J. *see* **Buchweitz, Ragnar-Olaf, 97g:32045**

Morrison, David R. *see* **Aspinwall, Paul S., 97d:32049**

Paul, Emmanuel Cycles évanescents d'une fonction de Liouville de type $f_1^{s_1}\cdots f_p^{s_p}$. (English and French summaries) [Vanishing cycles of a Liouville function of type $f_1^{s_1}\cdots f_p^{s_p}$] **97c:32052**

Riemenschneider, Oswald *see* **Behnke, Kurt, 97c:32050**

Shcherbak, I. G. (*with* Szpirglas, Aviva) Boundary singularities: double coverings and Picard-Lefschetz formulas. (English and French summaries) **97a:32047**

— (*with* Szpirglas, Aviva) Boundary singularities: Legendre and Lagrange transforms and duality. **97j:32030**

Shmelëv, A. S. Symplectic connections on fibrations of regular orbits of adjoint representations of simple Lie groups. (Russian. Russian summary) **97e:32041**

Stevens, Jan Computing versal deformations. (English summary) **97c:32053**

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Urabe, Tohsuke Dynkin graphs and the singularity theory, local and global. **97a:32048**

Yu, Jianming Combinatorial structure of Stokes regions of a simple singularity. **97g:32046**

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Bland, John (*with* Epstein, C. L.) Embeddable CR-structures and deformations of pseudoconvex surfaces. I. Formal deformations. (English summary) **97e:32021**

Chéniot, D. Vanishing cycles in a pencil of hyperplane sections of a non-singular quasi-projective variety. **97a:14018**

Epstein, C. L. *see* **Bland, John, 97c:32021**

Ishii, Shihoko Plurigenera of normal isolated singularities. **97a:32045**

Katz, Sheldon H. (*with* Morrison, David R.; Plesser, M. Ronen) Enhanced gauge symmetry in type II string theory. (English summary) **97i:81111**

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Miyajima, Kimio A note on the Bogomolov-type smoothness on deformations of the regular parts of isolated singularities. (English summary) **97d:32027**

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— *see also* **Katz, Sheldon H.; et al., 97i:81111**

Némethi, A. (*with* Steenbrink, J. H. M.) On the monodromy of curve singularities. **97k:32053**

Perron, B. (*with* Vannier, J. P.) Groupe de monodromie géométrique des singularités simples. [Geometric monodromy group of simple singularities] **97j:32031**

Plesser, M. Ronen *see* **Katz, Sheldon H.; et al., 97i:81111**

Steenbrink, J. H. M. *see* **Némethi, A., 97k:32053**

Stevens, Jan Deformations of cones over hyperelliptic curves. **97d:14051**

Vafa, Cumrun *see* **Morrison, David R., 97g:81060a** *and* **97g:81060b**

Vannier, J. P. *see* **Perron, B., 97j:32031**

32S35 Mixed Hodge theory of singular varieties [see also 14C30, 14D07]

Items with secondary classifications in 32S35

Dimca, A. Hodge numbers of hypersurfaces. **97h:14013**

García López, R. (*with* Némethi, A.) On the monodromy at infinity of a polynomial map. (English summary) **97g:32047**

Kita, Michitake (*with* Matsumoto, Keiji) Duality for hypergeometric period matrices. **97a:32017**

Matsumoto, Keiji *see* **Kita, Michitake, 97a:32017**

Némethi, A. *see* **García López, R., 97g:32047**

32S40 Monodromy; relations with differential equations and D-modules

Aleksandrov, Aleksandr G. (*with* Tanabé, Susumu[1]) Computing Gauss-Manin systems for complete intersection singularities S_μ. (English summary) **97e:32042**

Biosca, Hélène Sur l'existence de polynômes de Bernstein génériques associés à une application analytique. (English and French summaries) [On the existence of generic Bernstein polynomials of an analytic map] **97d:32051**

Briançon, J. (*with* Maisonobe, Ph.) Caractérisation géométrique de l'existence du polynôme de Bernstein relatif. [Geometric characterization of the existence of the relative Bernstein polynomial] **97d:32052**

— (*with* Granger, M.; Maisonobe, Ph.) Sur les systèmes différentiels relativement spécialisables et l'existence d'équations fonctionnelles relatives. (English and French summaries) [Relatively specializable systems and existence of relative functional equations] **97k:32052**

Calderón Moreno, Francisco J. Quelques propriétés de la V-filtration relative à un diviseur libre. (English and French summaries) [Some properties of the V-filtration with respect to a free divisor] **97i:32048**

Cho, Koji (*with* Mimachi, Katsuhisa; Yoshida, Masaaki) A hypergeometric integral attached to the configuration of the mirrors of the reflection group S_{n+2} acting on $\mathbf{P}_n$. **97a:32049**

García López, R. (*with* Némethi, A.) On the monodromy at infinity of a polynomial map. (English summary) **97g:32047**

Granger, M. *see* **Briançon, J.; et al., 97k:32052**

Iwasaki, Katsunori (*with* Kita, Michitake) Exterior power structure on the twisted de Rham cohomology of the complements of real Veronese arrangements. (English summary) **97a:32050**

Kita, Michitake *see* **Iwasaki, Katsunori, 97a:32050**

Maisonobe, Ph. *see* **Briançon, J., 97d:32052** *and* **97k:32052**

Malgrange, Bernard Connexions méromorphes. II. Le réseau canonique. [Meromorphic connections. II. The canonical lattice] **97h:32060**

Matsuno, Takanori On a theorem of Zariski-van Kampen type and its applications. **97b:32052**

Maynadier, Hélène Équations fonctionnelles pour une intersection complète quasi-homogène à singularité isolée. (English and French summaries) [Functional equations for a weighted-homogeneous isolated complete intersection singularity] **97e:32043**

Mimachi, Katsuhisa *see* **Cho, Koji; et al., 97a:32049**

Némethi, A. (*with* Steenbrink, J. H. M.) On the monodromy of curve singularities. **97k:32053**

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Perron, B. (*with* Vannier, J. P.) Groupe de monodromie géométrique des singularités simples. [Geometric monodromy group of simple singularities] **97j:32031**

Steenbrink, J. H. M. *see* **Némethi, A., 97k:32053**

Tanabé, Susumu[1] *see* **Aleksandrov, Aleksandr G., 97e:32042**

Vannier, J. P. *see* **Perron, B., 97j:32031**

Yoshida, Masaaki *see* **Cho, Koji; et al., 97a:32049**

Items with secondary classifications in 32S40

Belgrade, Ridha Sur la conjugaison de Kashiwara pour une classe de connexions méromorphes irrégulières. (English summary) [Kashiwara conjugation for a class of irregular meromorphic connections] **97h:32014**

Cho, Koji (*with* Matsumoto, Keiji) Intersection theory for twisted cohomologies and twisted Riemann's period relations. I. **97e:32025**

De Concini, Corrado (*with* Procesi, Claudio) Hyperplane arrangements and holonomy equations. **97k:14014**

Lê Dũng Tráng Topology of complex singularities. **97e:32044**

Lee, Ki-Suk (*with* Terao, Hiroaki) The logarithmic forms of k-generic arrangements. (English summary) **97k:52014**

Matsumoto, Keiji *see* **Cho, Koji, 97c:32025**

Paul, Emmanuel Cycles évanescents d'une fonction de Liouville de type $f_1^{s_1}\cdots f_p^{s_p}$. (English and French summaries) [Vanishing cycles of a Liouville function of type $f_1^{s_1}\cdots f_p^{s_p}$] **97c:32052**

Procesi, Claudio *see* **De Concini, Corrado, 97k:14014**

Slodowy, Peter Groups and special singularities. **97d:14004**

Terao, Hiroaki (*with* Yuzvinsky, Sergey) Logarithmic forms on affine arrangements. **97k:52015**

— *see also* **Lee, Ki-Suk, 97k:52014**

Yuzvinsky, Sergey *see* **Terao, Hiroaki, 97k:52015**

32S45 Modifications; resolution of singularities [see also 14E15]

Items with secondary classifications in 32S45

Ishii, Shihoko Plurigenera of normal isolated singularities. **97a:32045**

Libgober, Anatoly Automorphisms of desingularizations of quotients and equivariant McKay correspondence. (English and French summaries) **97i:32036**

Oka, Mutsuo[1] Geometry of plane curves via toroidal resolution. **97j:14059**

Yamada, Hiroshi Symplectic quotients and simultaneous resolutions of simple singularities. (English summary) **97b:14015**

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants

Arnol'd, V. I. Topological classification of complex trigonometric polynomials and the combinatorics of graphs with an identical number of vertices and edges. (Russian. Russian summary) **97d:32053**

Dudziński, Piotr On topological invariants mod 2 of weighted homogeneous polynomials. **97b:32053**

Fukui, Toshizumi (*with* Suzuki, Masahiko) Topological types of singularities of analytic functions (the work of the late Etsuo Yoshinaga). (Japanese) (*see* **97m:58001**)

Lee, Ki-Suk (*with* Terao, Hiroaki) The logarithmic forms of k-generic arrangements. **97j:32032**

Luengo, Ignacio (*with* Melle, Alejandro) A formula for the Milnor number. (English and French summaries) **97d:32054**

Maugendre, Hélène Topologie des germes jacobiens. (English and French summaries) [Topology of Jacobian germs] **97d:32055**

Melle, Alejandro *see* **Luengo, Ignacio, 97d:32054**

Oh, Kyungho The branching orders of a quasi-ordinary projection. **97b:32054**

Risler, Jean-Jacques (*with* Trotman, David) Bi-Lipschitz invariance of the multiplicity. **97f:32049**
Roan, Shi-shyr Orbifold Euler characteristic. (English summary) **97j:32033**
Suzuki, Masahiko *see* **Fukui, Toshizumi**, (**97m:58001**)
Terao, Hiroaki *see* **Lee, Ki-Suk**, **97j:32032**
Trotman, David *see* **Risler, Jean-Jacques**, **97f:32049**
(Yoshinaga, Etsuo) *see* **Fukui, Toshizumi**, (**97m:58001**)
Zaharia, Alexandru On the bifurcation set of a polynomial function and Newton boundary. II. **97h:32061**

Items with secondary classifications in 32S50

Chéniot, D. Vanishing cycles in a pencil of hyperplane sections of a non-singular quasi-projective variety. **97a:14018**
Du Bois, Philippe (*with* Hunault, Ollivier) Classification des formes de Seifert rationnelles des germes de courbes planes. (English and French summaries) [Classification of the rational Seifert forms of plane curve germs] **97d:32056**
García López, R. (*with* Némethi, A.) On the monodromy at infinity of a polynomial map. (English summary) **97g:32047**
Hunault, Ollivier *see* **Du Bois, Philippe**, **97d:32056**
Némethi, A. *see* **García López, R.**, **97g:32047**
Rosales Gonsales, Ènnesto Intersection dynamics on Grassmann manifolds. (English summary) **97j:58144**
Shi, He Chern classes of algebraic varieties with singularities. (English summary) **97j:14007**

32S55 Milnor fibration; relations with knot theory [see also 57M25, 57Q45]

Cassou-Noguès, Pierrette Sur la généralisation d'un théorème de Kouchnirenko. (French summary) [Generalization of a theorem of Kushnirenko] **97i:32050**
Du Bois, Philippe (*with* Hunault, Ollivier) Classification des formes de Seifert rationnelles des germes de courbe plane. (English and French summaries) [Classification of the rational Seifert forms of plane curve germs] **97g:32048**
— (*with* Hunault, Ollivier) Classification des formes de Seifert rationnelles des germes de courbes planes. (English and French summaries) [Classification of the rational Seifert forms of plane curve germs] **97d:32056**
Hunault, Ollivier *see* **Du Bois, Philippe**, **97d:32056** *and* **97g:32048**
Lê Dũng Tráng Topology of complex singularities. **97e:32044**
Massey, David B. Perversity, duality, and arrangements in $\mathbf{C}^3$. (English summary) **97k:32054**
Seade, José A. Fibred links and a construction of real singularities via complex geometry. (English summary) **97m:32051**

Items with secondary classifications in 32S55

Damon, James Higher multiplicities and almost free divisors and complete intersections. (English summary) **97d:32050**
Dudziński, Piotr On topological invariants mod 2 of weighted homogeneous polynomials. **97b:32053**
Guseĭn-Zade, S. M. On calculation of Dynkin diagrams of some complete intersections. **97m:32050**
Il'yuta, G. G. On q-monodromy groups of singularities. (Russian. Russian summary) **97f:32051**
Kabila, Abdelhak Équivalence de deux fibrations pour les feuilletages logarithmiques. (English summary) [Equivalence of two fibrations for logarithmic foliations] **97h:32053**
Massey, David B. Milnor fibres of non-isolated hypersurface singularities. (English summary) **97c:32049**
— Hypercohomology of Milnor fibres. **97k:32055**
Randell, Richard Milnor fibrations of lattice-isotopic arrangements. (English summary) **97m:57048**
Zaharia, Alexandru On the bifurcation set of a polynomial function and Newton boundary. II. **97h:32061**

32S60 Stratifications; constructible sheaves; intersection cohomology [see also 58C27]

Hajto, Zbigniew Stratification properties of constructible sets. **97d:32057**
Kabila, Abdelhak Problèmes d'équisingularité pour les formes de Pfaff. (English and French summaries) [Equisingularity problems for Pfaffian forms] **97d:32058**
Kashiwara, Masaki (*with* Schapira, Pierre) Moderate and formal cohomology associated with constructible sheaves. (English and French summaries) **97m:32052**
Massey, David B. Hypercohomology of Milnor fibres. **97k:32055**
Schapira, Pierre *see* **Kashiwara, Masaki**, **97m:32052**

Items with secondary classifications in 32S60

Gelfand, Sergei I. (*with* MacPherson, Robert; Vilonen, Kari) Perverse sheaves and quivers. (English summary) **97e:14028**
Hamm, Helmut A. (*with* Lê Dũng Tráng) Vanishing theorems for constructible sheaves. I. **97d:32015**
(Kashiwara, Masaki) *see* **Schapira, Pierre**, **97f:32011**
Lê Dũng Tráng *see* **Hamm, Helmut A.**, **97d:32015**
MacPherson, Robert *see* **Gelfand, Sergei I.; et al.**, **97e:14028**
Schapira, Pierre Constructible sheaves, Whitney functions and Schwartz's distributions. **97f:32011**
Vilonen, Kari *see* **Gelfand, Sergei I.; et al.**, **97e:14028**

32S65 Singularities of holomorphic vector fields

Berezovskaya, F. The main topological part of plane vector fields with fixed Newton diagram. (English summary) **97c:32054**
Cano, José The Puiseux theorem for differential equations. (English summary) **97b:32055**
Gómez-Mont, Xavier (*with* Wirtz, Bruno) On fixed points of conformal pseudogroups. (English summary) **97a:32051**
Oka, Nobuatsu Graph link invariants of isolated singularities of holomorphic vector fields in $\mathbf{C}^2$. I, II. **97k:32056**
Rebelo, Julio C. Singularités des flots holomorphes. (English and French summaries) [Singularities of holomorphic flows] **97d:32059**
Seade, José A. (*with* Suwa, Tatsuo) A residue formula for the index of a holomorphic flow. **97j:32034**
Suwa, Tatsuo *see* **Seade, José A.**, **97j:32034**
Wirtz, Bruno *see* **Gómez-Mont, Xavier**, **97a:32051**

Items with secondary classifications in 32S65

Cano, José Construction of invariant curves for singular holomorphic vector fields. (English summary) **97j:32027**
Gabrielov, A. M. Multiplicities of zeroes of polynomials on trajectories of polynomial vector fields and bounds on degree of nonholonomy. (English summary) **97c:14055**
Mucião, Jesús (*with* Valero-Valdés, Carlos) Bifurcations of meromorphic vector fields on the Riemann sphere. (English summary) **97f:58095**
Seade, José A. The index of a vector field on a singular variety. (English summary) **97f:57030**
Suwa, Tatsuo Classes de Chern des intersections complètes locales. (English and French summaries) [Chern classes of local complete intersections] **97m:14003**
Valero-Valdés, Carlos *see* **Mucião, Jesús**, **97f:58095**
Żołądek, Henryk The XVIth Hilbert problem about limit cycles. **97a:34083**

32S70 Other operations on singularities

Items with secondary classifications in 32S70

Brion, Michel (*with* Vergne, Michèle) Une formule d'Euler-Maclaurin pour les fonctions de partition. (English and French summaries) [An Euler-Maclaurin formula for partition functions] **97a:11164**
— (*with* Vergne, Michèle) Une formule d'Euler-Maclaurin pour les polytopes convexes rationnels. (English and French summaries) [An Euler-Maclaurin formula for rational convex polytopes] **97a:11165**
Spallek, Karlheinz Almost complex structures on spaces, associated singularities and foliations. (English summary) **97c:53051**
Vergne, Michèle *see* **Brion, Michel**, **97a:11164** *and* **97a:11165**

33–XX Special functions {33–XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11–XX; for representation theory, see 22Exx.}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Askey, Richard A look at the Bateman project. (English summary) **97f:33001**
Slavyanov, S. Yu. (*with* Zolotarev, V. I.) Principles for the organization of knowledge bases in the theory of special functions. (Russian. English and Russian summaries) **97e:33001**
Zolotarev, V. I. *see* **Slavyanov, S. Yu., 97e:33001**

Items with secondary classifications in 33–00

Gradshteĭn, I. S. (*with* Ryzhik, I. M.) ★ Table of integrals, series, and products. **97c:00014**
— *see also* **Lambert, Adeline**
Jin, Jian-Ming *see* **Zhang, Shanjie, 97m:65001**
Lambert, Adeline Table errata: *Table of integrals, series, and products* [fifth edition, English translation, Academic Press, Boston, MA, 1994; MR 94g:00008] by I. S. Gradshteĭn and I. M. Ryzhik.
Ryzhik, I. M. *see* **Gradshteĭn, I. S., 97c:00014** *and* **Lambert, Adeline**
Zhang, Shanjie (*with* Jin, Jian-Ming) ★ Computation of special functions. (English summary) **97m:65001**

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Tables:
Integrals, series, and products *see* **Gradshteĭn, I. S., 97c:00014**

33–01 Instructional exposition (textbooks, tutorial papers, etc.)

Temme, Nico M. ★ Special functions. **97e:33002**
Valent, Galliano (*with* Van Assche, Walter) The impact of Stieltjes' work on continued fractions and orthogonal polynomials: additional material. (English summary) **97c:33001**
Van Assche, Walter *see* **Valent, Galliano, 97c:33001**

Items with secondary classifications in 33–01

(Appell, Paul) *see* **Greenhill, Alfred George, 97b:01027**
Greenhill, Alfred George ★ Les fonctions elliptiques et leurs applications. (French) [Applications of elliptic functions] **97b:01027**
(Griess, J.) *see* **Greenhill, Alfred George, 97b:01027**
Lee, Ti-Chiang ★ Mathematical methods in physical sciences and engineering. (English summary) **97f:44001**
Watson, G. N. *see* **Whittaker, E. T., 97k:01072**
Whittaker, E. T. (*with* Watson, G. N.) ★ A course of modern analysis. (English summary) **97k:01072**

33–02 Research exposition (monographs, survey articles)

Meijer, H. G. A short history of orthogonal polynomials in a Sobolev space. I. The non-discrete case. (English summary) **97f:33002**

Items with secondary classifications in 33–02

Aomoto, Kazuhiko Hypergeometric functions, the past, today, and ... (from the complex analytic point of view) [translation of Sūgaku **45** (1993), no. 3, 208–220; MR 95c:33018]. (*see* **97a:00046**)
Mathai, Arak Mathai Special functions of matrix arguments. I. (English summary) **97h:33006**

33–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 33–03

Belhoste, Bruno Autour d'un mémoire inédit: la contribution d'Hermite au développement de la théorie des fonctions elliptiques. (English and French summaries) [On an unpublished paper: Hermite's contribution to the development of the theory of elliptic functions] **97g:01014**

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 33–04

Alhargan, Fayez A. A complete method for the computations of Mathieu characteristic numbers of integer orders. (English summary) **97h:33036**
Carlson, B. C. Numerical computation of real or complex elliptic integrals. (English summary) **97h:33035**
Geddes, K. O. (*with* Glasser, M. L.; Moore, R. A.; Scott, T. C.) Evaluation of classes of definite integrals involving elementary functions via differentiation of special functions. (English summary) **97e:33005**
Glasser, M. L. *see* **Geddes, K. O.; et al., 97e:33005**
Lether, Frank G. Rational approximation formulas for computing the positive zeros of $J_0(x)$. (English summary) **97j:33003**
Lozier, Daniel W. Software needs in special functions. (English summary) (*see* **97a:65004**)
Moore, R. A. *see* **Geddes, K. O.; et al., 97e:33005**
Pirastu, Roberto (*with* Siegl, Kurt) Parallel computation and indefinite summation: a ‖MAPLE‖ application for the rational case. (English summary) **97j:33006**
Renault, O. A new algorithm for computing orthogonal polynomials. (English summary) **97k:65068**
Scott, T. C. *see* **Geddes, K. O.; et al., 97e:33005**
Siegl, Kurt *see* **Pirastu, Roberto, 97j:33006**

33–06 Proceedings, conferences, collections, etc.

(Ismail, Mourad E. H.) *see* **Special functions, q-series and related topics, 97k:33001**
(Masson, David R.) *see* **Special functions, q-series and related topics, 97k:33001**
(Rahman, Mizan) *see* **Special functions, q-series and related topics, 97k:33001**

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Special functions, q-series and related topics ★ Special functions, q-series and related topics. **97k:33001**
Toronto, ON ★ Special functions, q-series and related topics. **97k:33001**
Workshop:
Special Functions, q-Series and Related Topics ★ Special functions, q-series and related topics. **97k:33001**

Items with secondary classifications in 33–06

(Levi, Decio) *see* **Symmetries and integrability of difference equations, 97i:39001**
(Vinet, Luc) *see* **Symmetries and integrability of difference equations, 97i:39001**
(Winternitz, Pavel) *see* **Symmetries and integrability of difference equations, 97i:39001**

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Estérel, PQ ★ Symmetries and integrability of difference equations. **97i:39001**
Symmetries and integrability of difference equations ★ Symmetries and integrability of difference equations. **97i:39001**
Workshop:
Symmetries and Integrability of Difference Equations ★ Symmetries and integrability of difference equations. **97i:39001**

33Bxx Elementary classical functions

33B10 Exponential and trigonometric functions

Bespalov, M. S. Representations for sums of even negative powers of sines at equidistant nodes. (Russian) **97j:33001**
Corless, Robert M. *see* **Jeffrey, David J.; et al., 97e:33003**
Dimitrovski, Dragan (*with* Mitevska, Jordanka) Trigonometries of the fourth and sixth order. (English and Polish summaries) **97c:33002**
Gervois, A. (*with* Mehta, M. L.) Some trigonometric identities. II. (English summary) **97h:33001**
Hare, David E. G. *see* **Jeffrey, David J.; et al., 97e:33003**
Jeffrey, David J. (*with* Hare, David E. G.; Corless, Robert M.) Unwinding the branches of the Lambert W function. (English summary) **97e:33003**
Kölbig, K. S. An infinite integral of Bessel functions. (English summary) **97i:33001**
Mehta, M. L. *see* **Gervois, A., 97h:33001**
Mitevska, Jordanka Fourth-order hyperbolic functions with basis $a(x) = -x^k$, $k \in \mathbf{N}_0$. (Macedonian. English and Macedonian summaries) **97f:33003**
— *see also* **Dimitrovski, Dragan, 97c:33002**
Palmisani, Cesare (*with* Rizzi, Bruno) Additional results on the series expansions of some trigonometric and hyperbolic functions. (English summary) **97h:33002**
Rizzi, Bruno *see* **Palmisani, Cesare, 97h:33002**

Items with secondary classifications in 33B10

Grosjean, Carl C. Solving some problems of advanced analytical nature posed in the SIAM-Review. II. (English summary) **97k:05018a**
— Errata to the paper: "Solving some problems of advanced analytical nature posed in the SIAM-review. II". **97k:05018b**
Hou, Bo-yu *see* **Hu, Zhan Ning, 97a:82033**
Hu, Zhan Ning (*with* Hou, Bo-yu) Cyclic quantum dilogarithm, shift operator and star-square relation of the BB model. (English summary) **97a:82033**
Moiseev, E. I. On certain biorthogonal systems. (English summary) **97k:33012**
Senouf, David Asymptotic and numerical approximations of the zeros of Fourier integrals. (English summary) **97e:30067**

33B15 Gamma, beta and polygamma functions

Alzer, Horst On some inequalities for the gamma and psi functions. (English summary) **97e:33004**
Chaudhry, Muhammad Aslam (*with* Zubair, S. M.) On an extension of generalized incomplete gamma functions with applications. (English summary) **97a:33001**
Geddes, K. O. (*with* Glasser, M. L.; Moore, R. A.; Scott, T. C.) Evaluation of classes of definite integrals involving elementary functions via differentiation of special functions. (English summary) **97e:33005**
Glasser, M. L. *see* **Geddes, K. O.; et al., 97e:33005**
Grabner, Peter J. (*with* Tichy, Robert F.; Zimmermann, Uwe T.) Inequalities for the gamma function with applications to permanents. (English summary) **97h:33003**
Kairies, Hans-Heinrich Zu einem Charakterisierungssatz von E. Artin. [On a characterization theorem of E. Artin] **97a:33002**
— On the optimality of a characterization theorem for the gamma function using the multiplication formula. (English summary) **97h:33003**
Milovanović, Gradimir V. Expansions of the Kurepa function. (English summary) **97c:33003**

Moore, R. A. *see* **Geddes, K. O.; et al., 97e:33005**
Olver, Frank W. J. On an asymptotic expansion of a ratio of gamma functions. (English summary) **97e:33006**
Remmert, Reinhold Wielandt's theorem about the Γ-function. **97b:33001**
Scott, T. C. *see* **Geddes, K. O.; et al., 97e:33005**
Shen, Yuan Yuan On characterizations of the gamma function. **97e:33007**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 97h:33003**
Zimmermann, Uwe T. *see* **Grabner, Peter J.; et al., 97h:33003**
Zubair, S. M. *see* **Chaudhry, Muhammad Aslam, 97a:33001**

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Barsky, Daniel (*with* Carpentier, Michel) Polynômes de Jacobi généralisés et intégrales de Selberg. (French summary) [Generalized Jacobi polynomials and Selberg integrals] **97k:33005**
Bradley, David Ramanujan's formula for the logarithmic derivative of the gamma function. (English summary) **97a:11132**
Campos, L. M. B. C. On an approach to complex analysis via differintegrations. (English summary) **97k:26005**
Carpentier, Michel *see* **Barsky, Daniel, 97k:33005**
Cauchon, G. Une fonction eulérienne formelle. (English summary) [A formal Euler function] **97b:47037**
Konishi, Eiichi Calculation of complex polygamma functions. (Japanese. English summary) **97m:65043**
Srivastava, Anand Kumar Asymptotic behaviour of certain zero-balanced hypergeometric series. (English summary) **97h:33013**
Temme, Nico M. Asymptotics of zeros of incomplete gamma functions. (English summary) **97c:33004**

33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

Alzer, Horst On some inequalities for the incomplete gamma function. (English summary) **97h:33004**
Chaudhry, Muhammad Aslam (*with* Temme, Nico M.; Veling, E. J. M.) Asymptotics and closed form of a generalized incomplete gamma function. (English summary) **97h:33005**
Temme, Nico M. Asymptotics of zeros of incomplete gamma functions. (English summary) **97c:33004**
— *see also* **Chaudhry, Muhammad Aslam; et al., 97h:33005**
Veling, E. J. M. *see* **Chaudhry, Muhammad Aslam; et al., 97h:33005**

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Dunster, T. M. Asymptotic solutions of second-order linear differential equations having almost coalescent turning points, with an application to the incomplete gamma function. (English summary) **97d:34026**
Geddes, K. O. (*with* Glasser, M. L.; Moore, R. A.; Scott, T. C.) Evaluation of classes of definite integrals involving elementary functions via differentiation of special functions. (English summary) **97e:33005**
Glasser, M. L. *see* **Geddes, K. O.; et al., 97e:33005**
Moore, R. A. *see* **Geddes, K. O.; et al., 97e:33005**
Olde Daalhuis, A. B. Hyperterminants. I. (English summary) **97g:34071**
Scott, T. C. *see* **Geddes, K. O.; et al., 97e:33005**

33B99 None of the above, but in this section

Mathai, Arak Mathai Special functions of matrix arguments. I. (English summary) **97h:33006**

Items with secondary classifications in 33B99

Craviotto, Cathleen M. (*with* Jones, William B.; Thron, W. J.; Wyshinski, Nancy J.) Computation of special functions by Padé approximants with orthogonal polynomial denominators. (English summary) **97g:65050**
Gangl, Herbert Families of functional equations for polylogarithms. **97g:19009**
Jones, William B. *see* **Craviotto, Cathleen M.; et al., 97g:65050**
Nahm, Werner Conformal field theory, dilogarithms, and three-dimensional manifolds. **97b:81118**
Thron, W. J. *see* **Craviotto, Cathleen M.; et al., 97g:65050**
Wyshinski, Nancy J. *see* **Craviotto, Cathleen M.; et al., 97g:65050**

33Cxx Hypergeometric functions

Items with secondary classifications in 33Cxx

Olver, Frank W. J. ★ Asymptotics and special functions. (English summary) **97i:41001**
Zayed, Ahmed I. ★ Handbook of function and generalized function transformations. (English summary) **97h:44001**

33C05 Classical hypergeometric functions, ${}_2F_1$

Arora, Manmohan Singh *see* **Bajpai, Shri Dhar; et al., 97j:33002**
Bajpai, Shri Dhar (*with* Arora, Manmohan Singh; Mishra, Sadhana) Semi-orthogonal relations for a class of Gauss' hypergeometric functions. (English summary) **97j:33002**
— A special result for a class of hypergeometric polynomials. (English summary) **97f:33004**
Cholewinski, Frank M. Hypergeometric commutators associated with the Euler operator. (English summary) **97h:33007**
Koepf, Wolfram Algorithms for m-fold hypergeometric summation. (English summary) **97m:33001**
Mishra, Sadhana *see* **Bajpai, Shri Dhar; et al., 97j:33002**
Montaldi, Emilio (*with* Srivastava, Hari M.) A note on the hypergeometric identities of Cayley and Orr. (English summary) **97b:33002a**
— (*with* Srivastava, Hari M.; Zucchelli, Giuseppe) Hypergeometric identities of Cayley and Orr types: some alternative approaches. (English summary) **97b:33002b**
Morita, Tohru Use of the Gauss contiguous relations in computing the hypergeometric functions $F(n+1/2, n+1/2; m; z)$. (English summary) **97h:33008**
Nagar, Vishakha *see* **Rathie, Arjun K., 97a:33004**
Paule, Peter A classical hypergeometric proof of an important transformation formula found by J.-B. Baillon and R. E. Bruck. **97b:33003**
Rathie, Arjun K. (*with* Nagar, Vishakha) On Kummer's second theorem involving product of generalized hypergeometric series. (English summary) **97a:33004**
Srivastava, Hari M. *see* **Montaldi, Emilio, 97b:33002a** *and* **97b:33002b**
Zucchelli, Giuseppe *see* **Montaldi, Emilio; et al., 97b:33002b**

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Bean, Michael A. The practical computation of areas associated with binary quartic forms. (English summary) **97i:11029**
Berndt, Bruce C. (*with* Bhargava, Srinivasamurthy; Garvan, Frank G.) Ramanujan's theories of elliptic functions to alternative bases. **97h:33034**
Bhargava, Srinivasamurthy *see* **Berndt, Bruce C.; et al., 97h:33034**
Curiel, Luis (*with* Galué, Leda) A generalization of the integral operators involving the Gauss' hypergeometric function. (Spanish. English and Spanish summaries) **97k:44006**
Denzler, Jochen A hypergeometric function approach to the persistence problem of single sine-Gordon breathers. (English summary) **97m:35176**
Frankel, N. E. *see* **Kowalenko, Victor; et al., 97c:41035**
Galué, Leda *see* **Curiel, Luis, 97k:44006**
Garvan, Frank G. *see* **Berndt, Bruce C.; et al., 97h:33034**
Glasser, M. L. *see* **Kowalenko, Victor; et al., 97c:41035**
Kowalenko, Victor (*with* Frankel, N. E.; Glasser, M. L.; Taucher, T.) ★ Generalised Euler-Jacobi inversion formula and asymptotics beyond all orders. (English summary) **97c:41035**
Krattenthaler, Christian HYP and HYPQ: Mathematica packages for the manipulation of binomial sums and hypergeometric series, respectively q-binomial sums and basic hypergeometric series. (English summary) **97j:05004**
— (*with* Srivastava, Hari M.) Summations for basic hypergeometric series involving a q-analogue of the digamma function. (English summary) **97h:33028**
McAvity, D. M. Integral transforms for conformal field theories with a boundary. (English summary) **97j:81326**
Moiseev, E. I. On certain biorthogonal systems. (English summary) **97k:33012**
Paule, Peter (*with* Schorn, Markus) A Mathematica version of Zeilberger's algorithm for proving binomial coefficient identities. (English summary) **97j:39006**
— A proof of a conjecture of Knuth. (English summary) **97k:33004**
Ponnusamy, S. Univalence of Alexander transform under new mapping properties. (English summary) **97d:30015**
Schorn, Markus *see* **Paule, Peter, 97j:39006**
Srivastava, Hari M. *see* **Krattenthaler, Christian, 97h:33028**
Taucher, T. *see* **Kowalenko, Victor; et al., 97c:41035**
Virchenko, Nina (*with* Zarubin, A. N.) On the Cauchy and Darboux problems for a differential-difference degenerative hyperbolic equation. (Ukrainian summary) **97m:35267**
Zarubin, A. N. *see* **Virchenko, Nina, 97m:35267**

33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

Agrawal, O. P. *see* **Lin, X. A., 97a:33005**
Ben Ghanem, Riadh (*with* Frappier, Clément) Spherical Bessel functions and explicit quadrature formula. (English summary) **97c:33005**
Frappier, Clément *see* **Ben Ghanem, Riadh, 97c:33005**
Giordano, Carla (*with* Rodonò, Lucia G.) Properties and inequalities for the zeros of Bessel functions. (English summary) **97k:33002**
— (*with* Laforgia, Andrea; Pečarić, Josip E.) Supplements to known inequalities for some special functions. (English summary) **97b:33004**
Grapsa, T. N. *see* **Vrahatis, Michael N.; et al., 97m:33002**
Grozev, Georgi R. (*with* Rahman, Qazi I.) Lagrange interpolation in the zeros of Bessel functions by entire functions of exponential type and mean convergence. (English summary) **97f:33005**
Laforgia, Andrea *see* **Giordano, Carla; et al., 97b:33004**
Lether, Frank G. Rational approximation formulas for computing the positive zeros of $J_0(x)$. (English summary) **97j:33003**
Lin, X. A. (*with* Agrawal, O. P.) A new identity involving positive roots of Bessel functions of the first kind. (English summary) **97a:33005**
Lorch, Lee (*with* Szego, Peter) Further on the points of inflection of Bessel functions. (English summary) **97i:33002**
McPhedran, R. C. *see* **Nicorovici, N. A.; et al., 97c:33006**
Miller, Allen R. A Sonine-Gegenbauer integral of the Neumann function. (English summary) **97h:33009**
Morales-Guzmán, J. D. *see* **Torres-Vega, Go.; et al., 97f:33006**
Muldoon, Martin E. Electrostatics and zeros of Bessel functions. (English summary) **97b:33005**
Nicorovici, N. A. (*with* Poulton, C. G.; McPhedran, R. C.) Analytical results for a class of sums involving Bessel functions and square arrays. (English summary) **97c:33006**
Paneva-Konovska, İ. D. Complete systems of Bessel functions in spaces of holomorphic functions. I.
Pečarić, Josip E. *see* **Giordano, Carla; et al., 97b:33004**
Poulton, C. G. *see* **Nicorovici, N. A.; et al., 97c:33006**
Ragos, O. *see* **Vrahatis, Michael N.; et al., 97m:33002**
Rahman, Qazi I. *see* **Grozev, Georgi R., 97f:33005**
Rawn, Michael David On the summation of Fourier and Bessel series. (English summary) **97a:33006**
Rodonò, Lucia G. *see* **Giordano, Carla, 97k:33002**
Skiniotis, T. *see* **Vrahatis, Michael N.; et al., 97m:33002**
Szego, Peter *see* **Lorch, Lee, 97i:33002**

Torres-Vega, Ge. (*with* Zúñiga-Segundo, A.; Morales-Guzmán, J. D.) Special functions and quantum mechanics in phase space: Airy functions. (English summary) **97f:33006**
Vrahatis, Michael N. (*with* Ragos, O.; Skiniotis, T.; Zafiropoulos, F. A.; Grapsa, T. N.) The topological degree theory for the localization and computation of complex zeros of Bessel functions. (English summary) **97m:33002**
Zafiropoulos, F. A. *see* **Vrahatis, Michael N.; et al., 97m:33002**
Zúñiga-Segundo, A. *see* **Torres-Vega, Go.; et al., 97f:33006**

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Chaudhry, Muhammad Aslam (*with* Temme, Nico M.; Veling, E. J. M.) Asymptotics and closed form of a generalized incomplete gamma function. (English summary) **97h:33005**
Cherkas, N. L. Investigation of a dispersion equation containing Hankel and Bessel functions. (Russian) (*see* **97g:00017**)
Exton, Harold Generalized Neumann and Kapteyn expansions. (English summary) **97a:33007**
Grapsa, T. N. *see* **Zafiropoulos, F. A.; et al., 97i:65034**
Guo, Kanghui A uniform L^p estimate of Bessel functions and distributions supported on S^{n-1}. (English summary) **97g:46047**
Jadon, B. P. S. *see* **Narain, Kuldeep**
Joshi, J. M. C. (*with* Nayal, H. S.) Abelian theorems for Laplace-Hardy transform. (English summary) **97h:44005**
Karatsuba, Catherine A. Fast evaluation of Bessel functions. (English summary)
Mladenov, I. M. Kirkwood's formula revisited. (English summary) **97a:78019**
Nakano, Minoru On products of the Airy functions and the WKB method. **97c:34118**
Narain, Kuldeep (*with* Jadon, B. P. S.) Six integral equations associated with Bessel functions. (English summary)
Nayal, H. S. *see* **Joshi, J. M. C., 97h:44005**
Naylor, Derek On an asymptotic expansion of the Kontorovich-Lebedev transform. (English summary) **97k:44005**
Ragos, O. *see* **Zafiropoulos, F. A.; et al., 97i:65034**
Sidi, Avram Computation of infinite integrals involving Bessel functions of arbitrary order by the $\overline{D}$-transformation. (English summary) **97k:65058**
(Srivastava, Hari M.) *see* **Yakubovich, S. B., 97h:44007**
Storozhenko, È. A. On a problem of Mahler on the zeros of a polynomial and its derivative. (Russian. Russian summary) **97h:30002**
Stuart, C. A. Cylindrical TE and TM modes in a self-focusing dielectric. **97i:78019**
Temme, Nico M. *see* **Chaudhry, Muhammad Aslam; et al., 97h:33005**
Veling, E. J. M. *see* **Chaudhry, Muhammad Aslam; et al., 97h:33005**
Vrahatis, Michael N. *see* **Zafiropoulos, F. A.; et al., 97i:65034**
Yakubovich, S. B. ★ Index transforms. (English summary) **97h:44007**
Zafiropoulos, F. A. (*with* Grapsa, T. N.; Ragos, O.; Vrahatis, Michael N.) On the computation of zeros of Bessel and Bessel-related functions. (English summary) **97i:65034**
Zhang, Jun² A note on the tau-method approximations for the Bessel functions $Y_0(z)$ and $Y_1(z)$. (English summary) **97c:65041**

33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$

Darwish, D. M. Irregular Coulomb wave functions expressed in terms of regular Coulomb functions. (English summary) **97j:33004**
Dotsenko, M. R. *see* **Skopets'kiĭ, V. V., 97k:33003**
Rusev, Petʳr K. Complete systems of Kummer and Weber-Hermite functions in spaces of holomorphic functions. (English summary) **97h:33010**
Skopets'kiĭ, V. V. (*with* Dotsenko, M. R.) An integral transformation with a generalized confluent hypergeometric function. (Russian. English and Ukrainian summaries) **97k:33003**

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Lebedev, N. N. *see* **Silbergleit, A. S., 97c:44001**
Matsumoto, Keiji (*with* Takayama, Nobuki) Braid group and a confluent hypergeometric function. (English summary) **97g:33002**
Olde Daalhuis, A. B. Hyperterminants. I. (English summary) **97g:34071**
Ponnusamy, S. Univalence of Alexander transform under new mapping properties. (English summary) **97d:30015**
Silbergleit, A. S. (*with* Lebedev, N. N.) Expansion of an arbitrary function in an integral in degenerate hypergeometric functions. (Russian. Russian summary) **97c:44001**
(Srivastava, Hari M.) *see* **Yakubovich, S. B., 97h:44007**
Takayama, Nobuki *see* **Matsumoto, Keiji, 97g:33002**
Taniguchi, Kenji Discrete series Whittaker functions of $SU(n, 1)$ and $Spin(2n, 1)$. (English summary) **97m:22003**
Yakubovich, S. B. ★ Index transforms. (English summary) **97h:44007**
Zhang, Changgui Confluence et phénomène de Stokes. [Confluence and the Stokes phenomenon] **97h:34006**

33C20 Generalized hypergeometric series, ${}_pF_q$

Bhatt, R. C. *see* **Singh, O. V., 97j:33007**
Bühring, Wolfgang Terminating Saalschützian hypergeometric series at unit argument. (English summary) **97h:33011**
Choi, Junesang Some evaluations for the ${}_3F_2(1)$. (English summary) **97h:33012**
Chu, Wen Chang Note on the Bradley and Ramanujan summation. (English summary) **97b:33006**
Dotsenko, M. R. *see* **Skopets'kiĭ, V. V., 97j:33008**
Exton, Harold Generalized Neumann and Kapteyn expansions. (English summary) **97a:33007**
— Four-term recurrence relations for hypergeometric functions of the second order. I. (English summary) **97b:33007**
— Transformation of certain generalized Kampé de Fériet functions. (English summary) **97f:33007**
Fugère, B. J. *see* **Tremblay, Richard, 97a:33009**
Gaur, Vimal K. (*with* Rathie, Arjun K.) On a double integral. (Hindi. English and Hindi summaries)
Grondin, F. *see* **Lavoie, J. L.; et al., 97j:33005**
Heggie, M. (*with* Nicklason, G. R.) An integral representation for the generalized binomial function. (English summary) **97c:33007**
Lavoie, J. L. (*with* Grondin, F.; Rathie, Arjun K.) Generalizations of Whipple's theorem on the sum of a ${}_3F_2$. (English summary) **97j:33005**
Letessier, Jean (*with* Valent, Galliano; Wimp, Jet) Some differential equations satisfied by hypergeometric functions. (English summary) **97a:33008**
Mukherjee, Manik Chandra On bilateral generating relations of modified hypergeometric polynomials. (English summary)
Nicklason, G. R. *see* **Heggie, M., 97c:33007**
Ortner, Norbert (*with* Wagner, Peter²) Series, the convergence of which should be interpreted in the sense of L. Schwartz's distributions. (English summary) **97i:33003**
Paule, Peter A proof of a conjecture of Knuth. (English summary) **97k:33004**
Pirastu, Roberto (*with* Siegl, Kurt) Parallel computation and indefinite summation: a ‖MAPLE‖ application for the rational case. (English summary) **97j:33006**
Rathie, Arjun K. (*with* Sharma, Sonia) An identity corresponding to an identity due to Preece. (Hindi. English and Hindi summaries)
— *see also* **Lavoie, J. L.; et al., 97j:33005** *and* **Gaur, Vimal K.**
Sharma, Sonia *see* **Rathie, Arjun K.**
Siegl, Kurt *see* **Pirastu, Roberto, 97j:33006**
Singh, O. V. (*with* Bhatt, R. C.) Finite summation formulas involving generalized hypergeometric functions. **97j:33007**
Skopets'kiĭ, V. V. (*with* Dotsenko, M. R.) On a generalization of Legendre functions. (Ukrainian. English summary) **97j:33008**
Srivastava, Anand Kumar Asymptotic behaviour of certain zero-balanced hypergeometric series. (English summary) **97h:33013**
Takayama, Nobuki An algorithm for finding recurrence relations of binomial sums and its complexity. (English summary) **97j:33009**
Tremblay, Richard (*with* Fugère, B. J.) Products of two restricted hypergeometric functions. (English summary) **97a:33009**
Valent, Galliano *see* **Letessier, Jean; et al., 97a:33008**
Wagner, Peter² *see* **Ortner, Norbert, 97i:33003**
Wimp, Jet *see* **Letessier, Jean; et al., 97a:33008**
Yen, Lily A two-line algorithm for proving terminating hypergeometric identities. (English summary) **97c:33008**

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Askey, Richard A look at the Bateman project. (English summary) **97f:33001**
Bolia, Mamta *see* **Raina, R. K., 97c:26012**
Ch'ên, Ming Po (*with* Srivastava, Hari M.) Some extensions of Bateman's product formulas for the Jacobi polynomials. (English summary) **97f:33011**
Choi, Junesang (*with* Srivastava, Hari M.) A reducible case of double hypergeometric series involving the Riemann ζ-function. **97d:33007**
— A class of infinite series summable by means of fractional calculus. (English summary) **97k:26006**
Gessel, Ira M. Finding identities with the WZ method. (English summary) **97j:05010**
(Knuth, Donald E.) *see* **Petkovšek, Marko; et al., 97j:05001**
Koepf, Wolfram Algorithms for m-fold hypergeometric summation. (English summary) **97m:33001**
Kotikov, A. V. The Gegenbauer polynomial technique: the evaluation of a class of Feynman diagrams. (English summary) **97i:81088**
Montaldi, Emilio (*with* Srivastava, Hari M.) A note on the hypergeometric identities of Cayley and Orr. (English summary) **97b:33002a**
— (*with* Srivastava, Hari M.; Zucchelli, Giuseppe) Hypergeometric identities of Cayley and Orr types: some alternative approaches. (English summary) **97b:33002b**
Ohta, Yūji Lappo-Danilevsky hyperlogarithm and period of Calabi-Yau manifold. (English summary) **97i:32023**
Petkovšek, Marko (*with* Wilf, Herbert S.; Zeilberger, Doron) ★ $A = B$. (English summary) **97j:05001**
Ponnusamy, S. (*with* Sabapathy, S.) Polylogarithms in the theory of univalent functions. (English summary) **97i:30019**
Raina, R. K. (*with* Bolia, Mamta) Application of certain fractional calculus operators in statistical distributions. (English summary) **97c:26012**
Sabapathy, S. *see* **Ponnusamy, S., 97i:30019**
Srivastava, Hari M. *see* **Montaldi, Emilio, 97b:33002a; 97b:33002b; Choi, Junesang, 97d:33007; Ch'ên, Ming Po, 97f:33011** *and* **Yakubovich, S. B., 97h:44007**
Stade, Eric Mellin transforms of Whittaker functions on $GL(4, \mathbf{R})$ and $GL(4, \mathbf{C})$. **97c:11057**
Todorov, Pavel G. New analytic solution of the trinomial algebraic equation $z^n + pz + q = 0$ by means of the Goursat hypergeometric function. II. (English summary) **97e:30013**
Valent, Galliano (*with* Van Assche, Walter) The impact of Stieltjes' work on continued fractions and orthogonal polynomials: additional material. (English summary) **97c:33001**
Van Assche, Walter *see* **Valent, Galliano, 97c:33001**
Wilf, Herbert S. *see* **Petkovšek, Marko; et al., 97j:05001**
Yakubovich, S. B. ★ Index transforms. (English summary) **97h:44007**
Yanushauskas, A. On the hypergeometric type of partial differential equations. (Russian. Lithuanian summary) **97g:35018**
Zeilberger, Doron *see* **Petkovšek, Marko; et al., 97j:05001**
Zucchelli, Giuseppe *see* **Montaldi, Emilio; et al., 97b:33002b**

33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)

Abbas, Salman Hassan (*with* Bajpai, Shri Dhar) An orthogonal type property of the

Legendre functions and computation of special functions. (English and Portuguese summaries) **97b:33008**

Agrawal, A. K. *see* **Agrawal, Hukum Chand**

Agrawal, Hukum Chand (*with* Agrawal, A. K.) On generalized Rodrigues' type of formula. (English summary)

— A unified class of polynomials. II. (English summary)

Alfaro, Manuel (*with* López Lagomasino, Guillermo; Rezola, M. L.) Some properties of zeros of Sobolev-type orthogonal polynomials. (English summary) **97f:33008**

Álvarez-Nodarse, R. (*with* Marcellán, Francisco) The modification of classical Hahn polynomials of a discrete variable. (English summary) **97j:33010**

Aringazin, A. K. (*with* Kirukin, D. A.; Santilli, Ruggero Maria) Isotopic generalization of the Legendre, Jacobi, and Bessel functions. (English summary) **97c:33009**

Bajpai, Shri Dhar Some integrals and orthogonal properties for a class of hypergeometric functions. (English summary) **97a:33010**

— An orthogonal type property for the Jacobi polynomials. **97a:33011**

— *see also* **Abbas, Salman Hassan, 97b:33008**

Banerji, P. K. (*with* Choudhary, Sudipto) The weight function and generalized Laguerre polynomials. (English summary)

Barsky, Daniel (*with* Carpentier, Michel) Polynômes de Jacobi généralisés et intégrales de Selberg. (French summary) [Generalized Jacobi polynomials and Selberg integrals] **97k:33005**

Bavinck, Herman On the zeros of certain linear combinations of Chebyshev polynomials. (English summary) **97a:33012**

— A new result for Laguerre polynomials. (English summary) **97j:33011**

Bello Hernández, Manuel (*with* Martínez Finkelshtein, Andrei) Zero asymptotics of Laurent orthogonal polynomials. (English summary) **97f:33004**

Belmehdi, S. *see* **Ronveaux, André; et al., 97j:33019**

Bender, Carl M. (*with* Feinberg, Joshua) Eigenvalue integrodifferential equations for orthogonal polynomials on the real line. (English summary) **97f:33009**

Ben Salem, Nejib (*with* Trimèche, Khélifa) Mehler integral transforms associated with Jacobi functions with respect to the dual variable. (English summary) **97h:33014**

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Negro, Javier (*with* Nieto, Luis Miguel) Symmetries of the wave equation in a uniform lattice. (English summary) **97c:39011**
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Peherstorfer, Franz (*with* Steinbauer, Robert) Characterization of orthogonal polynomials with respect to a functional. (English summary) **97b:42045**
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Rakhmanov, E. A. Uniform measure and distribution of zeros of extremal polynomials of a discrete variable. (Russian. Russian summary) **97g:26015**
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Ronveaux, André (*with* Van Assche, Walter) Upward extension of the Jacobi matrix for orthogonal polynomials. (English summary) **97k:42054**
— *see also* **Kalyagin, V. A.**, **97f:42039** *and* **Atakishiev, N. M.; et al.**, **97f:39003**
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Shrivastava, B. M. L. (*with* Nigam, S. K.) Some expansions for the multivariable H-function in series involving Jacobi polynomials. (English summary)
Shu, Chi-Wang *see* **Gottlieb, David**, **97b:42003** *and* **97b:42004**
Skrzipek, M.-R. Calculation of associated functions for rational modified weight functions. (English summary) **97c:42051**
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— Completeness of Hermite system in the Bergman space over a strip. **97m:30066b**
Sommen, F. Monogenic functions of higher spin. (English summary) **97h:30067**
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Us, G. F. Dual Appell systems in Poissonian analysis. (English summary) **97e:46057**
Valent, Galliano (*with* Van Assche, Walter) The impact of Stieltjes' work on continued fractions and orthogonal polynomials: additional material. (English summary) **97c:33001**
— Exact solutions of some quadratic and quartic birth and death processes and related orthogonal polynomials. (English summary) **97c:60214**
Van Assche, Walter *see* **Valent, Galliano**, **97c:33001** *and* **Ronveaux, André**, **97k:42054**
Virchenko, Nina Some integral operators on Buschman-Erdélyi type. (English and Spanish summaries) **97m:26008**
Volt, Michael Limit theorems for random walks on the double coset spaces $U(n)//U(n-1)$ for $n \to \infty$. (English summary) **97m:60009**
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Zhang, Pei Xuan Conjugate mixed Jacobi series and their corresponding conjugate functions. (Chinese. English and Chinese summaries) **97j:41021**
Znojil, Miloslav Jacobi polynomials and bound states. (English summary) **97e:81025**

33C50 Orthogonal polynomials and functions in several variables

Holmquist, Björn The d-variate vector Hermite polynomial of order k. (English summary) **97d:33004**
Matsumoto, Hiroyuki[2] Quadratic Hamiltonians and associated orthogonal polynomials. (English summary) **97b:33016**
Singh, L. S. *see* **Singh, Surya Narain**
Singh, Surya Narain (*with* Singh, L. S.) Certain generating functions for the Konhauser's polynomials $Z_n^{\alpha}(x; k)$. (English summary)

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Barsky, Daniel (*with* Carpentier, Michel) Polynômes de Jacobi généralisés et intégrales de Selberg. (French summary) [Generalized Jacobi polynomials and Selberg integrals] **97k:33005**
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Ch'ên, Ming Po (*with* Srivastava, Hari M.) Some extensions of Bateman's product formulas for the Jacobi polynomials. (English summary) **97f:33011**
Dunkl, Charles F. Intertwining operators associated to the group S_3. (English summary) **97b:22009**
Floreanini, Roberto (*with* Lapointe, Luc; Vinet, Luc) The polynomial SU(2) symmetry algebra of the two-body Calogero model. (English summary) **97j:81406**
Kalyagin, V. A. (*with* Ronveaux, André) On a system of "classical" polynomials of simultaneous orthogonality. (English summary) **97f:42039**
Konno, Hitoshi Dynamical correlation functions and finite-size scaling in the Ruijsenaars-Schneider model. (English summary) **97d:82027**
Lapointe, Luc *see* **Floreanini, Roberto; et al.**, **97j:81406**
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Pinsky, Mark A. Pointwise Fourier inversion and related Jacobi polynomial expansions. **97k:42010**
Polychronakos, Alexios P. Quasihole wave functions for the Calogero model. (English summary) **97c:82022**
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Serban, Didina (*with* Lesage, F.; Pasquier, V.) Single-particle Green function in the Calogero-Sutherland model for rational couplings $\beta = p/q$. (English summary) **97d:82030**
Srivastava, Hari M. *see* **Ch'ên, Ming Po**, **97f:33011**
Suetin, Pavel K. The weight estimates for classical orthogonal polynomials. (English summary)
Taghavi, M. An estimate on the correlation coefficients of the Rudin-Shapiro polynomials. (English and Farsi summaries) **97h:33020**
Vinet, Luc *see* **Floreanini, Roberto; et al.**, **97j:81406**
Xu, Yuan[1] Integration of the intertwining operator for h-harmonic polynomials associated to reflection groups. (English summary) **97m:33004**

33C55 Spherical functions, spherical harmonics, ultraspherical polynomials

Al-Sardary, Salar Yaseen Taha *see* **Sharma, Shri Deo**
Chauhan, T. P. S. *see* **Mishra, S. D.**
Dhami, H. S. (*with* Pande, Vijay) Expression of Legendre polynomial in matrix form and its application. (English summary)
Dimitrov, Dimitar K. On a conjecture concerning monotonicity of zeros of ultraspherical polynomials. (English summary) **97e:33011**
Gupta, S. D. Extensions of spheroidal wave transforms and applications. I, II. (English summary)

Mishra, S. D. (*with* Chauhan, T. P. S.) An infinite transform involving generalized prolate spheroidal functions of two variables. (English summary)
Pande, Vijay *see* **Dhami, H. S.**
Sao, Awanish Kumar *see* **Verma, Alok, 97k:33016**
Sharma, Shri Deo (*with* Al-Sardary, Salar Yaseen Taha) On multiple integral transformation formulae involving spheroidal function. (English summary)
Suetin, Pavel K. Orthogonal polynomials in two variables in filtration theory of the two-dimensional digital signals. (English summary) **97j:33021**
Verma, Alok (*with* Sao, Awanish Kumar) On absolute Cesàro summability of ultraspherical series. (Hindi. English and Hindi summaries) **97k:33016**

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Bender, Carl M. (*with* Cooper, Fred; Meisinger, Peter N.) Spherically symmetric random walks. I. Representation in terms of orthogonal polynomials. (English summary) **97h:82033**
Bushuev, I. V. Stability of recovering the near-field wave from the scattering amplitude. (English summary) **97g:35178**
Chauhan, T. P. S. *see* **Mishra, S. D.**
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Cui, Jianjun (*with* Freeden, Willi) Equidistribution on the sphere. (English summary) **97k:65024**
Doerschuk, Peter C. *see* **Zheng, Yibin, 97b:82105**
Do-Nhat, T. (*with* MacPhie, R. H.) Quasi-translational addition expressions of prolate scalar wave functions for thin prolate spheroids. (English summary) **97c:78009**
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Gasper, George (*with* Trebels, Walter) Ultraspherical multipliers revisited. (English summary) **97e:33008**
Gelb, Anne The resolution of the Gibbs phenomenon for spherical harmonics. (English summary) **97k:42005**
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Kauffman, Robert M. Functional analysis and spherical functions. (*see* **97d:35004**)
Krötz, Bernhard (*with* Neeb, Karl-Hermann) On hyperbolic cones and mixed symmetric spaces. (English summary) **97k:17007**
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Mishra, S. D. (*with* Chauhan, T. P. S.) On convolution integral equation involving spheroidal wave functions. (English summary)
Neeb, Karl-Hermann *see* **Krötz, Bernhard, 97k:17007**
Novoselsky, Akiva (*with* Katriel, Jacob) Symmetry adapted functions in hyperspherical coordinates. (English summary) (*see* **97d:00023**)
Reimer, Manfred Zonal spherical polynomials with minimal L_1-norm. (English summary) **97h:41019**
Ron, Amos (*with* Sun, Xingping) Strictly positive definite functions on spheres in Euclidean spaces. (English summary) **97a:41032**
Sawyer, P. Spherical functions on symmetric cones. (English summary) **97k:43015**
Sharma, Araohana *see* **Verma, Alok, 97k:33015**
Sharma, Shri Deo (*with* Al-Bayati, Azghar Abbas) Integrals involving multivariate H-function, spheroidal function and their convergence. (English summary)
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Verma, Alok (*with* Sharma, Araohana) On the Cesàro summability of ultraspherical series. (English summary) **97k:33015**
Zheng, Yibin (*with* Doerschuk, Peter C.) Explicit orthonormal fixed bases for spaces of functions that are totally symmetric under the rotational symmetries of a Platonic solid. (English summary) **97b:82105**
Zhu, Fu-Liu On the inverse Abel transforms for certain Riemannian symmetric spaces of rank 2. **97k:22013**

33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)

Agrawal, R. D. *see* **Goyal, Anil**
Al-Bayati, Azghar Abbas *see* **Sharma, Shri Deo**
Al-Hawaj, A. Y. Meijer's G-function and heat conduction in a rod with insulated faces. (English summary)
Arora, Manmohan Singh *see* **Bajpai, Shri Dhar, 97a:33030** *and* **97h:33021**
Bajpai, Shri Dhar Fourier Laguerre-Bessel series for Meijer's G-function. (English summary)
— A new class of three-dimensional Fourier series of Fox's H-function. (English summary)
— Fourier sine series for Fox's H-function of several variables. (English summary)
— Fourier Bessel expansion for Fox's H-function of several variables. (English summary)
— (*with* Arora, Manmohan Singh) Some results involving Hermite polynomials and Fox's H-function of several variables. (English and Portuguese summaries) **97a:33030**
— (*with* Arora, Manmohan Singh) Two Fourier-Legendre expansions for Fox's H-function of several variables. **97h:33021**
Bajpai, S. D. Some aspects of mathematical research with special reference to recent work in the fields of the G-functions and the H-functions of one and several variables. (English summary)
Chaurasia, V. B. L. (*with* Sharma, Suresh Chand) On integration with respect to parameters. (English summary)
— (*with* Sharma, Rajendra Pal) A theorem concerning a product of a general class of polynomials and the H-function of several complex variables. (English summary) **97d:33005**
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Garg, Mridula (*with* Kumar Gupta, Mahesh) The distribution of the ratio of two linear functions of independent random variables associated with Fox's H-function. (English summary)
Goyal, Anil (*with* Agrawal, R. D.) Integration of I-function of two variables with respect to parameters. (English summary)
Goyal, S. P. (*with* Saxena, Sunil) Certain results for a general class of polynomials, Konhauser biorthogonal polynomials and the multivariable H-function. (English summary)
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Jaimini, B. B. (*with* Koul, C. L.) Inequalities involving H-functions. (English summary) **97a:33031**
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Liu, Fang Bin Barnes integral representations of some special functions. (Chinese. English and Chinese summaries) **97f:33022**
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— Some expansion formulas and Fourier series for Fox's H-function of two variables. (English summary)
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Nguyễn Thanh Hải Convergence regions for multiple hypergeometric integrals representing H-functions in several variables. (English summary)
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— Double integrals involving Fox's H-function. (English summary)
— Application of I-function in a problem on electrostatic potential for spherical regions. (English summary) **97a:33032**
— Double integrals involving the multivariable H-function. (Hindi. English and Hindi summaries)
Saxena, Ram Kishore (*with* Ram, Chena) Integrals associated with a multivariable H-function and a general class of polynomials. (English summary)
— (*with* Dave, O. P.) Some reduction formulas for the H-function of two variables. (English summary) **97d:33006**
Saxena, Sunil *see* **Goyal, S. P.**
Sharma, Chandra K. (*with* Pandey, Niraj Kumar) On certain expansion formulae [MR 97f:33024]. (English summary) (*see* **97j:00027**)
— (*with* Kumar Patel, Anil) Fractional integral formulae involving the generalized Kampe de Feriet functions and the I-function of two variables. (English summary) (*see* **97j:00027**)
— (*with* Mishra, Prem Lal) On the I-function of two variables and its certain properties. (English summary)
— (*with* Pandey, Niraj Kumar) On certain expansion formulae. (English summary) **97f:33024**
— (*with* Kumar Patel, Anil) Fractional integral formulae involving the generalized Kampe de Feriet functions and the I-function of two variables. (English summary)
Sharma, Rajendra Pal *see* **Chaurasia, V. B. L., 97d:33005**
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— (*with* Mohammad, Mohammad Jasim) Some results involving generalised prolate spheroidal wave function and multivariate H-function. (English summary)
Sharma, Suresh Chand *see* **Chaurasia, V. B. L.**
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Shrivastava, H. S. P. New duplication formula for $\Gamma(2rz)$ [MR 97f:33025]. (English summary) (*see* **97j:00027**)
— New duplication formula for $\Gamma(2rz)$. (English summary) **97f:33025**
Yadav, J. L. Generalised fractional integrals involving the H-function associated with a general class of polynomials. (English summary)

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Bajpai, Shri Dhar Some integrals and orthogonal properties for a class of hypergeometric functions. (English summary) **97a:33010**
Bajpai, S. D. (*with* Mishra, Sadhana) Meijer's G-function and an anharmonic Fourier analysis for solving a problem of heat conduction. (English summary)
Bolia, Mamta *see* **Raina, R. K., 97h:30025**
Gupta, Neelmani *see* **Saxena, Ram Kishore, 97b:44009**
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Kilbas, A. A. (*with* Saigo, Megumi; Shlapakov, S. A.) Integral transforms with Fox's H-function in spaces of summable functions. (English summary) **97j:44007**
Lal, Mange *see* **Mathur, Pradeep Kumar; et al.**
Mathur, Pradeep Kumar (*with* Lal, Mange; Narain, Kuldeep) Simultaneous dual integral equations with Fox's H-function kernel. (English summary)
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Mishra, Sadhana *see* **Bajpai, S. D.**
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Nguen Suan Tkhao *see* **Kakichev, V. A.**
Nigam, S. K. *see* **Shrivastava, B. M. L.**

Nonnenmacher, Theo F. (*with* Metzler, Ralf) On the Riemann-Liouville fractional calculus and some recent applications. (English summary) **97g:26007**
Pareek, R. S. Integrals involving a general class of multivariable polynomials, Jacobi polynomials, and Fox's H-function. (English summary) **97j:33026**
Raina, R. K. (*with* Bolia, Mamta) On distortion theorems involving generalized fractional calculus operators. (English summary) **97h:30025**
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Saigo, Megumi (*with* Saxena, Ram Kishore; Ram, Jeta) On the two-dimensional generalized Weyl fractional calculus associated with two-dimensional H-transforms. (English summary) **97d:26011**
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Sharma, Chandra K. (*with* Tiwari, D. K.) Bilateral generating functions for systems in several variables. (English summary) **97i:33010**
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Shrivastava, B. M. L. (*with* Nigam, S. K.) On some results involving the products of generalized hypergeometric function. (English summary)
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33C65 Appell, Horn and Lauricella functions

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Ch'ên, Ming Po (*with* Srivastava, Hari M.) Some extensions of Bateman's product formulas for the Jacobi polynomials. (English summary) **97f:33011**
Exton, Harold An extended Barbanis Hamiltonian. (English summary) **97j:82009**
— Transformation of certain generalized Kampé de Fériet functions. (English summary) **97f:33007**
Gupta, Kailash Chandra (*with* Soni, R. C.) On unified fractional integral operators. (English summary) **97i:33009**
Matsumoto, Keiji (*with* Takayama, Nobuki) Braid group and a confluent hypergeometric function. (English summary) **97g:33002**
Miller, Allen R. A Sonine-Gegenbauer integral of the Neumann function. (English summary) **97h:33009**
Nguyễn Thanh Hải Convergence regions for multiple hypergeometric integrals representing H-functions in several variables. (English summary)
Shawagfeh, Nabil T. A note on some integrals involving two associated Laguerre polynomials. (English and Spanish summaries) **97k:33014**
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Yoshida, Masaaki Democratic compactification of configuration spaces of point sets on the real projective line. **97d:14088**

33C70 Other hypergeometric functions and integrals in several variables

Agrawal, R. D. *see* **Goyal, Anil, 97k:33019**
Agrest, M. M. (*with* Chachibaya, Ts. Sh.) Asymptotic representations of some classes of special functions that depend on two variables. (Russian. English summary) **97a:33034**
Aomoto, Kazuhiko Hypergeometric functions, the past, today, and ... (from the complex analytic point of view) [translation of Sūgaku **45** (1993), no. 3, 208–220; MR 95c:33018]. (*see* **97a:00046**)
Bhati, S. S. (*with* Joshi, Sunil) Expansions associated with hypergeometric functions of four variables. (English summary) **97h:33022**
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Chachibaya, Ts. Sh. *see* **Agrest, M. M., 97a:33034**
Choi, Junesang (*with* Srivastava, Hari M.) A reducible case of double hypergeometric series involving the Riemann ζ-function. **97d:33007**
Dave, C. K. (*with* Tiwari, Madhu) Generating functions for polynomials of n-variables. **97a:33035**
Exton, Harold Triple Gaussian hypergeometric functions. I. (English summary) **97h:33023a**
— Triple Gaussian hypergeometric functions. II. (English summary) **97h:33023b**
Gel'fand, Izrail' Moiseevich (*with* Graev, M. I.) Hypergeometric functions on a space of p-dimensional matrices. (Russian) **97d:33008**
— (*with* Graev, M. I.; Spirin, S. A.) Hypergeometric functions and the Newton polytope associated with the action of the torus $(\mathbf{C}^*)$ on $\bigwedge^k \mathbf{C}^n$. (Russian) **97h:33024**
Goyal, Anil (*with* Agrawal, R. D.) Integral involving the product of I-function of two variables. (English summary) **97k:33019**
Graev, M. I. *see* **Gel'fand, Izrail' Moiseevich, 97d:33008** *and* **97h:33024**
Gupta, Kailash Chandra (*with* Soni, R. C.) On unified fractional integral operators. (English summary) **97i:33009**
Gupta, Rajni Generalized Gegenbauer transform and multivariable H-function. (English summary)
Haraoka, Yoshishige Confluence of cycles for hypergeometric functions on $Z_{2,n+1}$. (English summary) **97e:33012**
Hayek Calil, Nácere (*with* Hernández Suárez, Víctor) Solution of a class of higher-order Bessel differential equations using hyper-Bessel operators. (Spanish) (*see* **97g:00019**)
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Jain, Deepak (*with* Jain, Renu) Some integrals involving Kampé de Fériet's series and I-function. (English summary) **97f:33026**
Jain, Renu *see* **Jain, Deepak, 97f:33026**
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Karlsson, Per W. Reduction of double Clausenian hypergeometric functions. (English summary) **97k:33020**
Kumbhat, R. K. (*with* Bhatter, Sanjay) On certain generalized hypergeometric function of matrix arguments. (English summary) **97h:33025**
Lahiri, Maya (*with* Satyanarayana, Bavanari) Certain bilateral generating relations for generalized hypergeometric functions. (English summary) **97a:33036**
Mathur, Pradeep Kumar (*with* Narain, Kuldeep) On simultaneous dual series equations involving generalised Bateman-k functions. (English summary)
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Pitre, Sangita N. (*with* Van der Jeugt, Joris) Transformation and summation formulas for Kampé de Fériet series $F^{0:3}_{1:1}(1,1)$. (English summary) **97h:33026**
Saito, Mutsumi Contiguity relations for the Lauricella functions. **97k:33021**
Satyanarayana, Bavanari *see* **Lahiri, Maya, 97a:33036**
Sharma, Chandra K. (*with* Mishra, Girish Kumar) Some identities involving the multivariable I-function. (English summary) (*see* **97j:00027**)
— (*with* Tiwari, D. K.) Bilateral generating functions for systems in several variables [MR 97i:33010]. (English summary) (*see* **97j:00027**)
— (*with* Singh, Indra Jeet) Integration of certain products involving Kampe de Feriet function and the multivariable H-function. (English summary)
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Soni, R. C. *see* **Gupta, Kailash Chandra, 97i:33009**
Spirin, S. A. *see* **Gel'fand, Izrail' Moiseevich; et al., 97h:33024**
Srivastava, Hari M. *see* **Choi, Junesang, 97d:33007**
Takayama, Nobuki Hypergeometric functions and toric varieties. (Japanese) (*see* **97c:00043**)
Tiwari, D. K. *see* **Sharma, Chandra K., 97i:33010** *and* **(97j:00027)**
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Bajpai, Shri Dhar Fourier sine series for Fox's H-function of several variables. (English summary)
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Cho, Koji (*with* Matsumoto, Keiji) Intersection theory for twisted cohomologies and twisted Riemann's period relations. I. **97c:32025**
Exton, Harold Transformation of certain generalized Kampé de Fériet functions. (English summary) **97f:33007**
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33C75 Elliptic integrals as hypergeometric functions

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Greenhill, Alfred George ★ Les fonctions elliptiques et leurs applications. (French) [Applications of elliptic functions] **97b:01027**
(Griess, J.) *see* **Greenhill, Alfred George, 97b:01027**

33C80 Connections with groups, algebras, root systems and related topics

Basu, D. K. *see* **Kar, Sujit Kumar, 97j:33024; Gupta, Swapna; Kar, Sujit Kumar; Mukherjee, Subir Kumar** *and* **Gupta, Swapna**
Cherednik, I. V. Kadell's two conjectures for Macdonald polynomials. **97j:33023**
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— (*with* Basu, D. K.) Origin of certain generating functions of Macdonald function $K_N(X)$ from a viewpoint of Lie algebra. (English summary)
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— (*with* Basu, D. K.) Lie-theoretic origins of certain generating functions of Laguerre polynomials. (English summary) **97j:33024**
Klevchuk, I. I. Generalized Chebyshev polynomials and their application. (Ukrainian. English and Ukrainian summaries) **97a:33037**

Kuznetsov, V. B. (*with* Sklyanin, E. K.) Separation of variables in the A_2 type Jack polynomials. (English summary) **97k:33022**
Matsumoto, Keiji (*with* Takayama, Nobuki) Braid group and a confluent hypergeometric function. (English summary) **97g:33002**
Mukherjee, Subir Kumar (*with* Basu, D. K.) Origin of certain generating functions of modified Bessel polynomials from the viewpoint of Lie algebra. (English summary)
Pitre, Sangita N. *see* **Srinivasa Rao, K.; et al., 97b:33018**
Sklyanin, E. K. *see* **Kuznetsov, V. B., 97k:33022**
Srinivasa Rao, K. (*with* Pitre, Sangita N.; Van der Jeugt, Joris) The polynomial zeros of degree 2 of the 9-j coefficient. (English and Spanish summaries) **97h:33018**
Takagi, Taichiro Polynomial analogues of the character formulas in vertex models. (English summary) **97d:33009**
Takayama, Nobuki *see* **Matsumoto, Keiji, 97g:33002**
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Aomoto, Kazuhiko Hypergeometric functions, the past, today, and ... (from the complex analytic point of view) [translation of Sūgaku **45** (1993), no. 3, 208–220; MR 95c:33018]. (*see* **97a:00046**)
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Branquinho, Amilcar A note on semi-classical orthogonal polynomials. (English summary) **97d:33001**
Chaturvedi, S. A direct proof of the completeness of squeezed odd number states. (English summary) **97j:81121**
— *see also* **Agarwal, G. S., 97g:81023**
Chiu, Ying-Nan *see* **Lai, Shan-Tao; et al., 97j:81095**
Cho, Koji (*with* Mimachi, Katsuhisa; Yoshida, Masaaki) A hypergeometric integral attached to the configuration of the mirrors of the reflection group S_{n+2} acting on $\mathbf{P}_n$. **97a:32049**
Chongdar, Asit Kumar Some generating functions of modified Jacobi polynomials. (English summary) **97f:33012**
— (*with* Majumdar, Niranjan Kumar) Some novel generating functions of extended Jacobi polynomials by group-theoretic method. **97b:33009**
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33C90 Applications

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Al-Bayati, Azghar Abbas *see* **Sharma, Shri Deo**
Bajpai, S. D. (*with* Mishra, Sadhana) Meijer's G-function and an anharmonic Fourier analysis for solving a problem of heat conduction. (English summary)
Banerji, P. K. (*with* Choudhary, Sudipto) On the fractional calculus of a general class of polynomials. (English summary) **97j:33025**
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Choudhary, Sudipto *see* **Banerji, P. K., 97j:33025**
Dwivedi, A. P. (*with* Shukla, S. C.) On five integral equations involving the product of "r" Legendre functions of imaginary argument. (English summary)
Exton, Harold On the double hypergeometric function of the third order $F^{1:1;2}_{1:0;1}$ which occurs in physical chemistry and the solution of certain boundary value problems. (English summary) **97e:33013**
Frankowski, K. *see* **Sobel, Milton, 97c:33014**
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Masson, David R. A curious integral. (English summary) **97i:33011**
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Nasser, Ibraheem Hartree integral in closed forms.
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Ènol'skiĭ, V. Z. (*with* Salerno, Mario) Lax representation for two-particle dynamics splitting on two tori. (English summary) **97k:58077**
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Greenhill, Alfred George ★ Les fonctions elliptiques et leurs applications. (French) [Applications of elliptic functions] **97b:01027**
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Hillion, Pierre Diffraction of plane waves on a parabolic cylinder. (English summary) **97f:78029**
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Kotikov, A. V. The Gegenbauer polynomial technique: the evaluation of a class of Feynman diagrams. (English summary) **97i:81088**
Kuznetsov, V. B. (*with* Sklyanin, E. K.) Separation of variables for the A_2 Ruijsenaars model and a new integral representation for the A_2 Macdonald polynomials. (English summary) **97e:82016**
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Nishigaki, Shinsuke Proof of universality of Bessel kernel for chiral matrix models in the microscopic limit. (English summary) **97i:82028**
Nonnenmacher, Theo F. *see* **West, Bruce J.; et al., 97j:82147**
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Suetin, Pavel K. Orthogonal polynomials in two variables in filtration theory of the two-dimensional digital signals. (English summary) **97j:33021**
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— On the index-convolution Kontorovich-Lebedev transform. (English summary) **97h:44009**
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Umemura, Hiroshi The Painlevé equation and classical functions. (Japanese) **97g:34017**

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33D05 q-gamma functions, q-beta functions and integrals

Adiga, Chandrashekar A note on the q-gamma and q-beta functions. (English summary) **97a:33042**

Askey, Richard A brief introduction to the world of q. (English summary) **97j:33027**
Ismail, Mourad E. H. (*with* Rahman, Mizan) Some basic bilateral sums and integrals. (English summary) **97f:33029**
McAnally, D. S. q-exponential functions and q-gamma functions. (English summary) **97j:33028**
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— *see also* **Ismail, Mourad E. H., 97f:33029**

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Agrawal, Hukum Chand Some q-expansions and identities. (English summary)
Floreanini, Roberto (*with* Vinet, Luc) q-gamma and q-beta functions in quantum algebra representation theory. (English summary) **97k:33031**
Kim, Han-Soo (*with* Kim, Taekyun) On q-log-gamma-functions. **97b:11025**
Kim, Taekyun *see* **Kim, Han-Soo, 97b:11025**
Krattenthaler, Christian (*with* Srivastava, Hari M.) Summations for basic hypergeometric series involving a q-analogue of the digamma function. (English summary) **97h:33028**
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Sury, B. Abel's theorem and a Gaussian determinant. (English summary) **97c:11028**
Ueno, Kimio (*with* Nishizawa, Michitomo) q-zeta functions and hypergeometric functions. (Japanese) **97m:11116**
Vinet, Luc *see* **Floreanini, Roberto, 97k:33031**

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Atakishiev, N. M. A Ramanujan-type measure for the Al-Salam and Ismail biorthogonal rational functions. (English summary) **97k:33025**
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Kaneko, Jyoichi A triple product identity for Macdonald polynomials. **97i:33012**

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Aomoto, Kazuhiko (*with* Kato, Yoshifumi) Gauss decomposition of connection matrices for symmetric A-type Jackson integrals. **97c:32027**
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Garvan, Frank G. A combinatorial proof of the Farkas-Kra theta function identities and their generalizations. (English summary) **97b:11060**
— *see also* **Berndt, Bruce C.; et al., 97h:33034**
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Kowalenko, Victor (*with* Frankel, N. E.; Glasser, M. L.; Taucher, T.) ★ Generalised Euler-Jacobi inversion formula and asymptotics beyond all orders. (English summary) **97c:41035**
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Taucher, T. *see* **Kowalenko, Victor; et al., 97c:41035**
Ueno, Kimio (*with* Nishizawa, Michitomo) q-zeta functions and hypergeometric functions. (Japanese) **97m:11116**

33D15 Basic hypergeometric functions in one variable

Atakishiev, N. M. On a one-parameter family of q-exponential functions. (English summary) **97b:33019**
Bowman, Douglas A general Heine transformation and symmetric polynomials of Rogers. **97d:33011**
Evans, Ronald Generalized Lambert series. (English summary) **97e:33014**
Floreanini, Roberto (*with* Vinet, Luc) Basic Bessel functions and q-difference equations. (English summary) **97j:33030**
Gupta, Dharma P. (*with* Ismail, Mourad E. H.; Masson, David R.) Contiguous relations, basic hypergeometric functions, and orthogonal polynomials. III. Associated continuous dual q-Hahn polynomials. (English summary) **97i:33013**
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Koelink, H. T. Yet another basic analogue of Graf's addition formula. (English summary) **97j:33031**
Krattenthaler, Christian (*with* Srivastava, Hari M.) Summations for basic hypergeometric series involving a q-analogue of the digamma function. (English summary) **97h:33028**
Kvitsinskiĭ, A. A. Zeta functions, heat kernel expansions, and asymptotics for q-Bessel functions. (English summary) **97c:33015**
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Singh, V. N. (*with* Rai, Prakriti) Two general basic hypergeometric identities. (English summary) **97j:33033**
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Berkovich, Alexander (*with* McCoy, Barry M.; Schilling, Anne) $N = 2$ supersymmetry and Bailey pairs. (English summary) **97f:81045**
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Kajiwara, Kenji (*with* Ohta, Yasuhiro; Satsuma, Junkichi) Casorati determinant solutions for the discrete Painlevé III equation. (English summary) **97j:39012**
Koelink, H. T. A basic analogue of Graf's addition formula and related formulas. (English summary) **97j:33037**
— (*with* Van Assche, Walter) Orthogonal polynomials and Laurent polynomials related to the Hahn-Exton q-Bessel function. (English summary) **97b:42043**
Krattenthaler, Christian HYP and HYPQ: Mathematica packages for the manipulation of binomial sums and hypergeometric series, respectively q-binomial sums and basic hypergeometric series. (English summary) **97j:05004**
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Khan, Mumtaz Ahmad (*with* Khan, Abdul Hakim) Transformations of mixed hypergeometric series. **97j:33036**
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Bowman, Douglas A general Heine transformation and symmetric polynomials of Rogers. **97d:33011**
Bressoud, David M. The Borwein conjecture and partitions with prescribed hook differences. (English summary) **97j:05014**
Gessel, Ira M. (*with* Krattenthaler, Christian) Cylindric partitions. (English summary) **97e:05014**
Ismail, Mourad E. H. (*with* Rahman, Mizan) Some basic bilateral sums and integrals. (English summary) **97f:33029**
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Milne, Stephen C. (*with* Newcomb, John W.) $U(n)$ very-well-poised ${}_{10}\phi_9$ transformations. (English summary) **97k:33029**
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33D45 Basic orthogonal polynomials and functions in one and several variables

Álvarez-Nodarse, R. (*with* Smirnov, Yu. F.) The dual Hahn q-polynomials in the lattice $x(s) = [s]_q[s+1]_q$ and the q-algebras $SU_q(2)$ and $SU_q(1,1)$. (English summary) **97e:33015**
Berg, Christian (*with* Ismail, Mourad E. H.) q-Hermite polynomials and classical orthogonal polynomials. (English summary) **97b:33020**
Debergh, Nathalie On q-Hermite and para-Hermite polynomials. (English summary) (*see* **97d:00023**)
Fischer, Ismor Discrete orthogonal polynomial expansions of averaged functions. (English summary) **97a:33045**
Floreanini, Roberto (*with* Vinet, Luc) Symmetries of the q-difference heat equations and discrete q-Hermite polynomials. (English summary) (*see* **97d:00023**)
— (*with* LeTourneux, Jean; Vinet, Luc) A q-deformed $e(4)$ and continuous q-Jacobi polynomials. (English summary) **97h:33029**
Grünbaum, F. Alberto (*with* Haine, Luc) The q-version of a theorem of Bochner. (English summary) **97m:33005**
Gupta, Dharma P. (*with* Masson, David R.) Solutions to the associated q-Askey-Wilson polynomial recurrence relation. (English summary) **97b:33021**
— (*with* Masson, David R.) Contiguous relations, continued fractions and orthogonality: an ${}_8\varphi_7$ model. (English summary) **97a:33046**
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— *see also* **Berg, Christian, 97b:33020**
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— (*with* Verding, J.) Spectral analysis and the Haar functional on the quantum SU(2) group. (English summary) **97a:33048**
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Spiridonov, V. P. (*with* Zhedanov, A. S.) Discrete Darboux transformations, the discrete-time Toda lattice, and the Askey-Wilson polynomials. (English summary) **97f:33030**
— (*with* Vinet, Luc; Zhedanov, A. S.) Discrete Schrödinger equation, Darboux transformations, and orthogonal polynomials. (English summary) **97j:33038**
Srivastava, Hari M. (*with* Singh, Shobh Nath; Shukla, Hari Shankar) Transformations of certain generalized q-hypergeometric functions of two variables. (English summary) **97d:33012**
— *see also* **Jain, Vinod Kumar, 97a:33047**
Szwarc, Ryszard Nonnegative linearization and quadratic transformation of Askey-Wilson polynomials. (English summary) **97h:33030**
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Gupta, Dharma P. (*with* Ismail, Mourad E. H.; Masson, David R.) Contiguous relations, basic hypergeometric functions, and orthogonal polynomials. III. Associated continuous dual q-Hahn polynomials. (English summary) **97i:33013**
Gustafson, Robert A. (*with* Krattenthaler, Christian) Heine transformations for a new kind of basic hypergeometric series in $U(n)$. (English summary) **97j:33040**
Ismail, Mourad E. H. (*with* Masson, David R.) Generalized orthogonality and continued fractions. (English summary) **97d:42020**
— (*with* Rahman, Mizan) Some basic bilateral sums and integrals. (English summary) **97f:33029**
— *see also* **Gupta, Dharma P.; et al., 97i:33013** *and* **Bustoz, Joaquin; et al., 97k:33018**
Kachurik, I. I. (*with* Klimyk, A. U.) Operator spectra for quantum algebras and q-orthogonal polynomials. (English summary) **97c:22016**
Kalnins, E. G. (*with* Miller, Willard, Jr.) q-algebra representations of the Euclidean, pseudo-Euclidean and oscillator algebras, and their tensor products. (English summary) **97j:33041**
— (*with* Miller, Willard, Jr.) A note on tensor products of q-algebra representations and orthogonal polynomials. (English summary) **97k:33027**
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Yannacopoulos, A. N. (*with* Brindley, J.; Merkin, J. H.; Pilling, M. J.) Approximation of attractors using Chebyshev polynomials. (English summary) **97k:58101**
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33D55 Basic spherical functions, spherical harmonics (continuous and discrete)

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33D60 Basic hypergeometric integrals and functions defined by them

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Saxena, Ram Kishore (*with* Kumar, Rajendra²) A basic analogue of the generalised H-function. (English summary) **97k:33028**

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Buschman, R. G. Recurrences for q-hypergeometric functions. (English summary) **97a:33052**
Milne, Stephen C. (*with* Newcomb, John W.) U(n) very-well-poised ${}_{10}\varphi_9$ transformations. (English summary) **97k:33029**
Nakatani, Minobu The q-analogue of $E(k,n)$. (Japanese) **97k:33030**
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Asherova, R. M. (*with* Smirnov, Yu. F.; Tolstoĭ, V. N.) q-Weyl coefficients for $U_q(3)$ and q-Racah coefficients for $SU_q(2)$. (English summary) **97i:33016**
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Fichtmüller, M. (*with* Weich, W.) The limit transition $q \to 1$ of the q-Fourier transform. (English summary) **97j:33039**
Floreanini, Roberto (*with* Vinet, Luc) q-gamma and q-beta functions in quantum algebra representation theory. (English summary) **97k:33031**
Gustafson, Robert A. (*with* Krattenthaler, Christian) Heine transformations for a new kind of basic hypergeometric series in $U(n)$. (English summary) **97j:33040**
Kakehi, Tomoyuki Eigenfunction expansion associated with the Casimir operator on the quantum group $SU_q(1,1)$. **97a:33054**
Kalnins, E. G. (*with* Miller, Willard, Jr.) q-algebra representations of the Euclidean, pseudo-Euclidean and oscillator algebras, and their tensor products. (English summary) **97j:33041**
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Lavrenov, A. N. Deformation of the Askey-Wilson algebra with three generators. (English summary) **97b:33022**
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Nakatani, Minobu A quantum analogue of the hypergeometric system $E_{3,6}$. **97a:33055**
Noumi, Masatoshi (*with* Sugitani, Tetsuya) Quantum symmetric spaces and related q-orthogonal polynomials. (English summary) **97h:33033**
— (*with* Sugitani, Tetsuya) Quantization of classical symmetric pairs and q-orthogonal polynomials. (Japanese) (*see* **96c:00030**)
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Álvarez-Nodarse, R. (*with* Smirnov, Yu. F.) The dual Hahn q-polynomials in the lattice $x(s) = [s]_q[s+1]_q$ and the q-algebras $SU_q(2)$ and $SU_q(1,1)$. (English summary) **97e:33015**
Au-Yang, Helen (*with* Perk, Jacques H. H.) The many faces of the chiral Potts model. (English summary) **97i:82011**
Bonechi, F. (*with* Ciccoli, N.; Giachetti, R.; Sorace, E.; Tarlini, M.) Free q-Schrödinger equation from homogeneous spaces of the 2-dim Euclidean quantum group. (English summary) **97j:81131**
Carter, J. Scott (*with* Flath, Daniel E.; Saito, Masahico) ★ The classical and quantum 6j-symbols. **97g:17008**
Chapovskiĭ, Yu. A. Gelfand pair associated with a Hopf algebra and a coideal. (English summary) **97j:16054**

Cherednik, I. V. Kadell's two conjectures for Macdonald polynomials. **97j:33023**
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Etingof, Pavel I. Central elements for quantum affine algebras and affine Macdonald's operators. **97e:17020**
Feinsilver, Philip Lie algebras and recurrence relations. IV. Representations of the Euclidean group and Bessel functions. (English summary) **97e:22021**
Flath, Daniel E. *see* **Carter, J. Scott; et al., 97g:17008**
Floreanini, Roberto (*with* LeTourneux, Jean; Vinet, Luc) A q-deformed $e(4)$ and continuous q-Jacobi polynomials. (English summary) **97h:33029**
Gervais, Jean-Loup On the Liouville coupling constants. (English summary) **97c:81078**
Gessel, Ira M. (*with* Krattenthaler, Christian) Cylindric partitions. (English summary) **97e:05014**
Giachetti, R. *see* **Bonechi, F.; et al., 97j:81131**
Hasegawa, Koji A commuting difference system arising from the elliptic R-matrix. (English summary) **97f:39022**
Jing, Naihuan Higher level representations of the quantum affine algebra $U_q(\widehat{\mathfrak{sl}}(2))$. (English summary) **97f:17017**
Kachurik, I. I. (*with* Klimyk, A. U.) Operator spectra for quantum algebras and q-orthogonal polynomials. (English summary) **97c:22016**
Kakehi, Tomoyuki (*with* Masuda, Tetsuya) Logarithmic divergence of heat kernels on some quantum spaces. (English summary) **97h:58152**
Kedem, Rinat (*with* McCoy, Barry M.; Melzer, Ezer) The sums of Rogers, Schur and Ramanujan and the Bose-Fermi correspondence in $(1+1)$-dimensional quantum field theory. (English summary) **97j:11049**
Klimyk, A. U. *see* **Kachurik, I. I., 97c:22016**
Kochubei, A. N. p-adic commutation relations. (English summary) **97j:81169**
Koelink, H. T. A basic analogue of Graf's addition formula and related formulas. (English summary) **97j:33037**
— (*with* Verding, J.) Spectral analysis and the Haar functional on the quantum SU(2) group. (English summary) **97a:33048**
Koga, Yoshiyuki *see* **Nagatomo, Kiyokazu, 97d:17007**
Krattenthaler, Christian *see* **Gessel, Ira M., 97e:05014**
Lapointe, Luc (*with* Vinet, Luc) Exact operator solution of the Calogero-Sutherland model. (English summary) **97c:81217**
LeTourneux, Jean *see* **Floreanini, Roberto; et al., 97h:33029**
Mann, Ady (*with* Parthasarathy, Ragavachariar) Minimum uncertainty states for the quantum group $SU_q(2)$ and quantum Wigner d-functions. (English summary) **97b:81049**
Masuda, Tetsuya *see* **Kakehi, Tomoyuki, 97h:58152**
McCoy, Barry M. *see* **Kedem, Rinat; et al., 97j:11049**
Melzer, Ezer *see* **Kedem, Rinat; et al., 97j:11049**
Nagatomo, Kiyokazu (*with* Koga, Yoshiyuki) q-difference analogue of the Euler-Poisson-Darboux equation and its Laplace sequence. **97d:17007**
Nakatani, Minobu The q-analogue of $E(k,n)$. (Japanese) **97k:33030**
Parthasarathy, Ragavachariar *see* **Mann, Ady, 97b:81049**
Pearce, Paul A. *see* **Warnaar, S. Ole, 97a:82039**
Perk, Jacques H. H. *see* **Au-Yang, Helen, 97i:82011**
Saito, Masahico *see* **Carter, J. Scott; et al., 97g:17008**
Schilling, Anne Multinomials and polynomial bosonic forms for the branching functions of the $\widehat{su}(2)_M \times \widehat{su}(2)_N / \widehat{su}(2)_{M+N}$ conformal coset models. (English summary) **97j:81329**
Schmidt, Jeffrey R. A Rodriguez [Rodrigues] formula and integration measure for the quantum deformed Legendre functions. (English summary) **97f:81067**
Smirnov, Yu. F. *see* **Álvarez-Nodarse, R., 97e:33015**
Sorace, E. *see* **Bonechi, F.; et al., 97j:81131**
Spiridonov, V. P. (*with* Zhedanov, A. S.) Discrete Darboux transformations, the discrete-time Toda lattice, and the Askey-Wilson polynomials. (English summary) **97f:33030**
Tarlini, M. *see* **Bonechi, F.; et al., 97j:81131**
Vainerman, L. I. Gel'fand pair associated with the quantum group of motions of the plane and q-Bessel functions. (English summary) **97f:46117**
Verding, J. *see* **Koelink, H. T., 97a:33048**
Vinet, Luc *see* **Lapointe, Luc, 97c:81217** *and* **Floreanini, Roberto; et al., 97h:33029**
Warnaar, S. Ole (*with* Pearce, Paul A.) A-D-E polynomial and Rogers-Ramanujan identities. (English summary) **97a:82039**
— Fermionic solution of the Andrews-Baxter-Forrester model. II. Proof of Melzer's polynomial identities. (English summary) **97j:82061**
Zhedanov, A. S. *see* **Spiridonov, V. P., 97f:33030**
Zheng, Yibin (*with* Doerschuk, Peter C.) Explicit orthonormal fixed bases for spaces of functions that are totally symmetric under the rotational symmetries of a Platonic solid. (English summary) **97b:82105**

33D90 Applications

Items with secondary classifications in 33D90

Berkovich, Alexander (*with* McCoy, Barry M.; Orrick, William P.) Polynomial identities, indices, and duality for the $N=1$ superconformal model $SM(2,4\nu)$. (English summary) **97f:82034**
Carow-Watamura, Ursula (*with* Watamura, Satoshi) The q-deformed Schrödinger equation of the harmonic oscillator and its solutions. (English summary) **97f:81048**
Conway, Andrew R. Some exact results for moments of 2D directed animals. (English summary) **97j:82072**
Feigenbaum, James (*with* Freund, Peter G. O.) A q-deformation of the Coulomb problem. (English summary) **97c:81075**
Freund, Peter G. O. *see* **Feigenbaum, James, 97c:81075**
Irac-Astaud, Michèle $su_q(2)$-invariant Schrödinger equations. (English summary) **97d:81089**
Ismail, Mourad E. H. *see* **Muttalib, K. A., 97b:82037**
McCoy, Barry M. *see* **Berkovich, Alexander; et al., 97f:82034**
Muttalib, K. A. (*with* Ismail, Mourad E. H.) Impact of localization on Dyson's circular ensemble. (English summary) **97h:82037**
Orrick, William P. *see* **Berkovich, Alexander; et al., 97f:82034**
Watamura, Satoshi *see* **Carow-Watamura, Ursula, 97f:81048**

33D99 None of the above, but in this section

Items with secondary classifications in 33D99

Aomoto, Kazuhiko Connection formulas in the q-analog de Rham cohomology. **97g:32017**
Bauer, Ernest (*with* Gepner, Doron) Fermionic sum representations for the Virasoro characters of the unitary superconformal minimal models. (English summary) **97j:81299**
Gepner, Doron *see* **Bauer, Ernest, 97j:81299**
Johnson, Warren P. Some applications of the q-exponential formula. (English and French summaries) **97h:05015**

33Exx Other special functions

33E05 Elliptic functions and integrals

Al-Zamel, A. (*with* Kalla, S. L.) Epstein-Hubbell elliptictype integral and its generalizations. (English summary) **97c:33017**
Anderson, Glen D. (*with* Vamanamurthy, M. K.) Some properties of quasiconformal distortion functions. (English summary) **97a:33056**
Berndt, Bruce C. (*with* Bhargava, Srinivasamurthy; Garvan, Frank G.) Ramanujan's theories of elliptic functions to alternative bases. **97h:33034**
Bhargava, Srinivasamurthy *see* **Berndt, Bruce C.; et al., 97h:33034**
Carlson, B. C. Numerical computation of real or complex elliptic integrals. (English summary) **97h:33035**
Garvan, Frank G. *see* **Berndt, Bruce C.; et al., 97h:33034**
Guo, Bai Ni *see* **Qi, Feng**
Hazra, A. K. Unified rule for the reduction of some elliptic integrals to standard forms. (English summary)
Kalla, S. L. *see* **Al-Zamel, A., 97c:33017**
Qi, Feng (*with* Guo, Bai Ni) An upper bound estimate for a complete elliptic integral. (Chinese. English and Chinese summaries)
Qiu, Song Liang (*with* Vamanamurthy, M. K.) Sharp estimates for complete elliptic integrals. (English summary) **97f:33033**
Saçhoğlu, Cihan Generalization of Weierstrassian elliptic functions to $\mathbb{R}^n$. (English summary) **97c:33018**
Vamanamurthy, M. K. *see* **Anderson, Glen D., 97a:33056** *and* **Qiu, Song Liang, 97f:33033**

Items with secondary classifications in 33E05

(Appell, Paul) *see* **Greenhill, Alfred George, 97b:01027**
Baker, H. F. ★ Abelian functions. (English summary) **97b:14038**
Berg, M. C. On generalized Gauss-Hecke sums and theta constants. (English summary) **97g:11046**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang Cheng) Ramanujan's class invariants and cubic continued fraction. **97b:11056**
Bonk, Mario The characterization of theta functions by functional equations. **97b:39043**
Bukhshtaber, V. M. (*with* Kholodov, A. N.) Characteristic expansions and multiplicative addition theorems. (English summary) **97f:39028**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 97b:11056**
Delshams, Amadeo (*with* Ramírez-Ros, Rafael) Poincaré-Mel'nikov-Arnol'd method for analytic planar maps. (English summary) **97b:58125**
Ènol'skiĭ, V. Z. (*with* Salerno, Mario) Lax representation for two-particle dynamics splitting on two tori. (English summary) **97k:58077**
Garvan, Frank G. Ramanujan's theories of elliptic functions to alternative bases—a symbolic excursion. (English summary) **97j:11010**
Greenhill, Alfred George ★ Les fonctions elliptiques et leurs applications. (French) [Applications of elliptic functions] **97b:01027**
(Griess, J.) *see* **Greenhill, Alfred George, 97b:01027**
Inozemtsev, V. I. Invariants of linear combinations of transpositions. (English summary) **97b:82007**
Kholodov, A. N. *see* **Bukhshtaber, V. M., 97f:39028**
(Krichever, Igor Moiseevich) *see* **Baker, H. F., 97b:14038**
Lang, Serge Die Wärmeleitung auf dem Kreis und Thetafunktionen. (German summary) [Heat conduction on the circle and theta functions] **97a:35020**
Meyer, Curt Zur Theorie und Praxis der elliptischen Einheiten. [On the theory and practice of elliptic units] **97d:11164**
Partyka, Dariusz The maximal value of the function $[0,1] \ni r \mapsto \Phi_K^1(\sqrt{r}) - r$. (English and Polish summaries) **97h:30032**
Qiu, Song Liang (*with* Vuorinen, M.) Submultiplicative properties of the φ_K-distortion function. (English summary) **97d:30024**
Ramírez-Ros, Rafael *see* **Delshams, Amadeo, 97b:58125**
Salerno, Mario *see* **Ènol'skiĭ, V. Z., 97k:58077**
Takagi, Tsuyoshi Product formula of the cubic Gauss sum modulo the product of the primes. (English summary) **97m:11108**
Vuorinen, M. *see* **Qiu, Song Liang, 97d:30024**
Zhang, Liang Cheng *see* **Berndt, Bruce C.; et al., 97b:11056**

33E10 Lamé, Mathieu, and spheroidal wave functions

Alhargan, Fayez A. A complete method for the computations of Mathieu characteristic numbers of integer orders. (English summary) **97h:33036**

Items with secondary classifications in 33E10

Clarkson, Peter A. (*with* Olver, Peter J.) Symmetry and the Chazy equation. (English summary) **97a:34019**

Olver, Peter J. *see* **Clarkson, Peter A., 97a:34019**

33E20 Other functions defined by series and integrals

Chiccoli, C. *see* **Lorenzutta, S.; et al., 97b:33023**
Dattoli, G. *see* **Lorenzutta, S.; et al., 97b:33023**
Kalla, S. L. (*with* Vũ Kim Tuấn) Asymptotic formulas for generalized elliptic-type integrals. (English summary) **97h:33037**
Lorenzutta, S. (*with* Maino, G.; Dattoli, G.; Torre, Amalia; Chiccoli, C.) On infinite-variable Bessel functions. (English and Italian summaries) **97b:33023**
Maino, G. *see* **Lorenzutta, S.; et al., 97b:33023**
Miller, Kenneth S. The Mittag-Leffler and related functions. (English summary) **97k:33032**
Nasser, Ibraheem Lifshitz integral in closed forms. (English summary) **97a:33057**
Torre, Amalia *see* **Lorenzutta, S.; et al., 97b:33023**
Vũ Kim Tuấn *see* **Kalla, S. L., 97h:33037**

Items with secondary classifications in 33E20

Berndt, Bruce C. Ramanujan's formulas for Eisenstein series. **97m:11056**
Company, R. *see* **Jódar, Lucas; et al., 97i:34010**
Gilewicz, Jacek (*with* Magnus, Alphonse P.) Optimal inequalities of Padé approximant errors in the Stieltjes case: closing result. (English summary) **97i:41024**
Hadid, S. B. (*with* Luchko, Yu. F.) An operational method for solving fractional differential equations of an arbitrary real order. (English summary) **97b:44011**
Jódar, Lucas (*with* Company, R.; Ponsoda, Enrique) Orthogonal matrix polynomials and systems of second order differential equations. (English summary) **97i:34010**
Kilbas, A. A. (*with* Saigo, Megumi) Fractional integrals and derivatives of functions of Mittag-Leffler type. (Russian. English and Russian summaries) **97f:26007**
— (*with* Saigo, Megumi) Solution of Abel integral equations of the second kind and of differential equations of fractional order. (Russian. English and Russian summaries) **97f:26008**
Luchko, Yu. F. *see* **Hadid, S. B., 97b:44011**
Magnus, Alphonse P. *see* **Gilewicz, Jacek, 97i:41024**
Penner, Robert C. The Poincaré dual of the Weil-Petersson Kähler two-form. (English summary) **97d:32029**
Ponsoda, Enrique *see* **Jódar, Lucas; et al., 97i:34010**
Saigo, Megumi *see* **Kilbas, A. A., 97f:26007** *and* **97f:26008**

33E30 Other functions coming from differential, difference and integral equations

Grammaticos, B. *see* **Tamizhmani, K. M.; et al., 97k:33033**
Ohta, Yasuhiro *see* **Tamizhmani, K. M.; et al., 97k:33033**
Ramani, A. *see* **Tamizhmani, K. M.; et al., 97k:33033**
Tamizhmani, K. M. (*with* Ramani, A.; Grammaticos, B.; Ohta, Yasuhiro) A study of the discrete P_V equation: Miura transformations and particular solutions. (English summary) **97k:33033**

Items with secondary classifications in 33E30

Bassom, Andrew P. *see* **Clarkson, Peter A., 97j:34009**
Belmehdi, S. *see* **Ronveaux, André; et al., 97j:33019**
Clarkson, Peter A. (*with* Bassom, Andrew P.) Bäcklund transformations and hierarchies of exact solutions for the fourth Painlevé equation and their application to discrete equations. (English summary) **97j:34009**
Company, R. *see* **Jódar, Lucas; et al., 97i:34010**
Godoy, E. *see* **Ronveaux, André; et al., 97j:33019**
Jódar, Lucas (*with* Company, R.; Ponsoda, Enrique) Orthogonal matrix polynomials and systems of second order differential equations. (English summary) **97i:34010**
Kajiwara, Kenji (*with* Ohta, Yasuhiro) Determinant structure of the rational solutions for the Painlevé II equation. (English summary) **97g:34004**
Kazakov, A. Ya. (*with* Slavyanov, S. Yu.) Integral equations for special functions of Heun class. (English summary) **97j:34031**
Letessier, Jean (*with* Ronveaux, André; Valent, Galliano) Fourth-order difference equation for the associated Meixner and Charlier polynomials. (English summary) **97f:33014**
Liu, Jian Ming (*with* Zheng, Wei Xing) Complex-weighted Plancherel formula and Jacobi transform. **97g:44011**
Magnus, Alphonse P. Special nonuniform lattice (snul) orthogonal polynomials on discrete dense sets of points. (English summary) **97a:33022**
Ohta, Yasuhiro *see* **Kajiwara, Kenji, 97g:34004**
Ponsoda, Enrique *see* **Jódar, Lucas; et al., 97i:34010**
Ronveaux, André (*with* Belmehdi, S.; Godoy, E.; Zarzo, A.) Recurrence relation approach for connection coefficients. Applications to classical discrete orthogonal polynomials. (English summary) **97j:33019**
— *see also* **Letessier, Jean; et al., 97f:33014**
Slavyanov, S. Yu. *see* **Kazakov, A. Ya., 97j:34031**
Valent, Galliano *see* **Letessier, Jean; et al., 97f:33014**
Zarzo, A. *see* **Ronveaux, André; et al., 97j:33019**
Zheng, Wei Xing *see* **Liu, Jian Ming, 97g:44011**

33E99 None of the above, but in this section

Items with secondary classifications in 33E99

Hain, Richard M. The existence of higher logarithms. (English summary) **97g:19008**
Hanamura, Masaki (*with* MacPherson, Robert) Geometric construction of polylogarithms. II. **97g:19007**
MacPherson, Robert *see* **Hanamura, Masaki, 97g:19007**
Pakovich, F. B. Elliptic polynomials. (Russian) **97b:11057**
Rashkov, R. C. (*with* Stanishkov, M.) Three-point correlation functions in $N = 1$ super Liouville theory. (English summary) **97h:81205**
Stanishkov, M. *see* **Rashkov, R. C., 97h:81205**

34–XX Ordinary differential equations

34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Sachdev, P. L. ★ A compendium on nonlinear ordinary differential equations. **97e:34001**

Items with secondary classifications in 34–00

Lanczos, Cornelius ★ Linear differential operators. (English summary) **97c:00002**

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bedient, Phillip E. *see* **Rainville, Earl D.; et al.**
Bedient, Richard E. *see* **Rainville, Earl D.; et al.**
Bellman, Richard (*with* Cooke, Kenneth L.) ★ Modern elementary differential equations. **97b:34001**
Cooke, Kenneth L. *see* **Bellman, Richard, 97b:34001**
Forsyth, A. R. ★ A treatise on differential equations. (English summary) **97g:34001**
Hille, Einar ★ Ordinary differential equations in the complex domain. (English summary) **97m:34001**
Hubbard, John H. (*with* West, Beverly H.) ★ Differential equations: a dynamical systems approach. **97e:34002**
Mattheij, R. M. M. (*with* Molenaar, Jacob) ★ Ordinary differential equations in theory and practice. (English summary) **97j:34001**
Molenaar, Jacob *see* **Mattheij, R. M. M., 97j:34001**
Perko, Lawrence ★ Differential equations and dynamical systems. **97g:34002**
Rainville, Earl D. (*with* Bedient, Phillip E.; Bedient, Richard E.) ★ Elementary differential equations.
Verhulst, Ferdinand ★ Nonlinear differential equations and dynamical systems. (English summary) **97g:34003**
West, Beverly H. *see* **Hubbard, John H., 97e:34002**

Items with secondary classifications in 34–01

Bautista, Maurino *see* **Troutman, John L., 97a:00002**
Kalis, H. ★ Parasto diferenciālvienādojumu, skaitliskās metodes. (Latvian. Latvian summary) [Ordinary differential equations, numerical methods]
Troutman, John L. (*with* Bautista, Maurino) ★ Boundary value problems of applied mathematics. **97a:00002**

34–02 Research exposition (monographs, survey articles)

Azbelev, N. V. (*with* Maksimov, V. P.; Rakhmatullina, L.) ★ Introduction to the theory of linear functional-differential equations. **97m:34002**
Bainov, Drumi D. (*with* Covachev, Valéry) ★ Impulsive differential equations with a small parameter. **97i:34001**
— (*with* Kostadinov, S. I.) ★ Abstract impulsive differential equations. **97h:34001**
(Chapovskiĭ, Yu. A.) *see* **Samoilenko, A. M., 97i:34002**
Cole, Julian D. *see* **Kevorkian, J., 97k:34001**
Covachev, Valéry *see* **Bainov, Drumi D., 97i:34001**
Diekmann, Odo (*with* van Gils, Stephan A.; Verduyn Lunel, Sjoerd M.; Walther, Hans-Otto) ★ Delay equations. (English summary) **97a:34001**
van Gils, Stephan A. *see* **Diekmann, Odo; et al., 97a:34001**
Kaymakcalan, B. *see* **Lakshmikantham, V.; et al., 97j:34002**
Kevorkian, J. (*with* Cole, Julian D.) ★ Multiple scale and singular perturbation methods. (English summary) **97k:34001**
(Khidekel', V. A.) *see* **Slavyanov, S. Yu., 97f:34001**
Kostadinov, S. I. *see* **Bainov, Drumi D., 97h:34001**
Lakshmikantham, V. (*with* Sivasundaram, S.; Kaymakcalan, B.) ★ Dynamic systems on measure chains. (English summary) **97j:34002**
Maksimov, V. P. *see* **Azbelev, N. V.; et al., 97m:34002**
Matveev, N. M. ★ Лекции по аналитической теории дифференциальных уравнений. (Russian. Russian summary) [Lectures in the analytic theory of differential equations] **97a:34002**
(Mitropol'skiĭ, Yurīĭ Alekseevich) *see* **Samoilenko, A. M., 97i:34002**
Perestyuk, N. A. *see* **Samoilenko, A. M., 97i:34002**
Rakhmatullina, L. *see* **Azbelev, N. V.; et al., 97m:34002**
Samoilenko, A. M. (*with* Perestyuk, N. A.) ★ Impulsive differential equations. **97i:34002**
Sivasundaram, S. *see* **Lakshmikantham, V.; et al., 97j:34002**
Slavyanov, S. Yu. ★ Asymptotic solutions of the one-dimensional Schrödinger equation. (English summary) **97f:34001**
(Trofimchuk, S. I.) *see* **Samoilenko, A. M., 97i:34002**
Verduyn Lunel, Sjoerd M. *see* **Diekmann, Odo; et al., 97a:34001**
Walther, Hans-Otto *see* **Diekmann, Odo; et al., 97a:34001**

Items with secondary classifications in 34–02

Engel, Klaus Jochen Systems of evolution equations. **97a:34152**
de Jager, E. M. (*with* Jiang, Furu) ★ The theory of singular perturbations. **97h:35002**
Jiang, Furu *see* **de Jager, E. M., 97h:35002**
Kerimov, M. K. On some special functions that arise in the solution of ordinary differential equations by asymptotic methods. (Russian. Russian summary) **97j:34071**
Kir'yanen, A. I. ★ Устойчивость систем с последействием и их приложения. (Russian. Russian summary) [Stability of systems with aftereffect and their applications] **97b:34083**
Kulikov, A. N. Invariant manifolds. A survey of some papers. (Russian) (*see* **97c:00032**)
Leela, S. Current state of the method of vector Lyapunov functions. (English summary) (*see* **97a:00029**)
Martynyuk, A. A. Aggregation forms in the investigation of the stability of motion of large-scale systems. Stability criteria (a survey). (Russian. English and Ukrainian summaries) **97d:34062**
Penkin, O. M. (*with* Pokornyĭ, Yu. V.) On some qualitative properties of equations on a one-dimensional cellular complex. (Russian) **97m:34039**
Pokornyĭ, Yu. V. *see* **Penkin, O. M., 97m:34039**

34–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 34–03

Butcher, J. C. A history of Runge-Kutta methods. (English summary) **97e:65005**
(Cartwright, M. L.) *see* **McMurran, Shawnee L., 97i:01025**
Dahan-Dalmedico, Amy Le difficile héritage de Henri Poincaré en systèmes dynamiques. (French summary) [The difficult legacy of Henri Poincaré in dynamical systems] **97c:01024**
Denkowska, Zofia (*with* Jankowska-Sahraoui, Emilia) Past, present and future of Hilbert's sixteenth problem. (Polish) **97f:01022**
Jankowska-Sahraoui, Emilia *see* **Denkowska, Zofia, 97f:01022**
Kolomīets', V. G. *see* **Samoilenko, A. M., 97m:01085**
(Littlewood, J. E.) *see* **McMurran, Shawnee L., 97i:01025**
McMurran, Shawnee L. (*with* Tattersall, James J.) The mathematical collaboration of M. L. Cartwright and J. E. Littlewood. **97i:01025**
(Mitropol'skiĭ, Yurīĭ Alekseevich) *see* **Samoilenko, A. M., 97m:01085**
Puchta, Susann On the role of mathematics and mathematical knowledge in the invention of Vannevar Bush's early analog computers. (English summary) **97g:01024**
Ramis, Jean-Pierre Stokes phenomenon: historical background. (English summary) (*see* **97k:34002**)
Samoilenko, A. M. (*with* Kolomīets', V. G.) On Yu. O. Mitropol'skiĭ's contribution to the development of the asymptotic methods of nonlinear mechanics. (Ukrainian. English and Ukrainian summaries) **97m:01085**
Tattersall, James J. *see* **McMurran, Shawnee L., 97i:01025**

34–04 Explicit machine computation and programs (not the theory of computation or programming)

Abell, Martha L. (*with* Braselton, James P.) Advancing the study of differential equations with technology. (English summary) (*see* **97i:68010**)
Braselton, James P. *see* **Abell, Martha L., (97i:68010)**

Items with secondary classifications in 34–04

Abad, Alberto (*with* Elipe Sánchez, Antonio C.; Vallejo, Miguel) Normalization of perturbed non-linear Hamiltonian oscillators. (English summary) **97j:34043**
Abramov, S. A. Symbolic algorithms for finding particular d'Alembert solutions of linear equations. (Russian. Russian summary) **97h:34002**
Brand, Andreas *see* **Wolf, Thomas Otto, 97j:34013**
Elipe Sánchez, Antonio C. *see* **Abad, Alberto; et al., 97j:34043**
Górecki, Henryk (*with* Szymkat, Maciej; Zaczyk, Mieczysław) A generalization of the Orlando formula—symbolic manipulation approach. (English summary) **97h:34059**
Huseyin, Koncay (*with* Wang, Shiqi) On the analysis of dynamic bifurcations and stability of solutions. (English summary) **97a:34117**
Nishida, Toyoaki Grammatical description of behaviors of ordinary differential equations in two-dimensional phase space. (English summary) **97m:34059**
Reichelt, Mark W. *see* **Shampine, Lawrence F., 97k:65307**
Shampine, Lawrence F. (*with* Reichelt, Mark W.) The MATLAB ODE suite. (English summary) **97k:65307**
Szymkat, Maciej *see* **Górecki, Henryk; et al., 97h:34059**
Vallejo, Miguel *see* **Abad, Alberto; et al., 97j:34043**
Wang, Shiqi *see* **Huseyin, Koncay, 97a:34117**
Wolf, Thomas Otto (*with* Brand, Andreas) Approaches to solving nonlinear ODEs. (English summary) **97j:34013**
Zaczyk, Mieczysław *see* **Górecki, Henryk; et al., 97h:34059**

34–06 Proceedings, conferences, collections, etc.

(Braaksma, B. L. J.) *see* **Stokes phenomenon and Hilbert's 16th problem, 97k:34002**
(Hale, Jack K.) *see* **Ordinary and delay differential equations, 97i:34003**
(Immink, G. K.) *see* **Stokes phenomenon and Hilbert's 16th problem, 97k:34002**
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Theory and Applications of Differential Equations ★ Ordinary and delay differential equations. **97i:34003**
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34Axx General theory

Items with secondary classifications in 34Axx

Perko, Lawrence ★ Differential equations and dynamical systems. **97g:34002**

34A05 Explicit solutions and reductions

Abramov, S. A. Symbolic algorithms for finding particular d'Alembert solutions of linear equations. (Russian. Russian summary) **97h:34002**
Bencze, Mihály *see* **Popovici, Florin**
Dimov, Lazo A. On the solution of a second-order differential equation. (Macedonian. English and Macedonian summaries)
Gromak, V. I. On the transcendence of the fifth and sixth Painlevé equations. (Russian. Russian summary) **97m:34003**
Hadid, S. B. (*with* Masaedeh, Basem; Momani, S. M.) On the existence of maximal and minimal solutions of differential equations of non-integer order. (English summary) **97c:34001**
— (*with* Ta'ani, A. A.; Momani, S. M.) Some existence theorems on differential equations of generalized order through a fixed-point theorem. (English summary) **97c:34002**
Huang, Xin Xin *see* **Xu, Hai Shen**
Kajiwara, Kenji (*with* Ohta, Yasuhiro) Determinant structure of the rational solutions for the Painlevé II equation. (English summary) **97g:34004**
Katori, Kaoru (*with* Otake, Masamitu; Manome, Yoichi; Mishima, Taketoshi) One approach to exact solutions of a piecewise linear differential equation. (English summary) (*see* **97f:00023**)
(Kečkić, J. D.) *see* **Mitrinović, Dragoslav S., 97c:34003**
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Mitrinović, Dragoslav S. Sur la forme de l'intégrale générale de quelques équations différentielles du premier ordre. [Form of the general integral of some first-order differential equations] **97c:34003**
Momani, S. M. *see* **Hadid, S. B.; et al., 97c:34001** *and* **97c:34002**
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Popovici, Florin (*with* Bencze, Mihály) A simple method for solving the second order linear ordinary differential equations with constant coefficients.
Schwarz, Fritz Franz On 3rd order ordinary differential equations with maximal symmetry group. (English and German summaries) **97h:34003**
Sibuya, Yasutaka (*with* Tabara, Tatsuhiko J.) Calculation of a Stokes multiplier. (English summary) **97d:34001**
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Vujanovic, B. D. Conservation laws and reduction to quadratures of the generalized time-dependent Duffing equation. (English summary) **97a:34003**
Xu, Hai Shen (*with* Huang, Xin Xin) A solution method for a class of nonhomogeneous linear differential equations with constant coefficients. (Chinese. English and Chinese summaries)
Yan, En Rang (*with* Li, Hai Hong) Solving second-order linear differential equations with variable coefficients. (Chinese. English and Chinese summaries)
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Yoshida, Akihiro On certain second order linear ordinary differential equations that have elementary solutions. (Japanese) (*see* **97b:68009**)
Ziglin, S. L. On the nonintegrability of the ABC-flow for $A = B$. (Russian) **97g:34005**

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Abdou, M. A. A simple method to solve the functional-differential equation $(d^2/dx^2)y(x) - ay(x^v) = 0$. (English summary) (*see* **97j:00027**)
Barannik, L. F. (*with* Lagno, G. O.) Symmetry reduction of the Boussinesq equation to ordinary differential equations. (English summary) **97e:35076**
Bassom, Andrew P. *see* **Clarkson, Peter A., 97j:34009**
Brand, Andreas *see* **Wolf, Thomas Otto, 97j:34013**
Clarkson, Peter A. (*with* Bassom, Andrew P.) Bäcklund transformations and hierarchies of exact solutions for the fourth Painlevé equation and their application to discrete equations. (English summary) **97j:34009**
Datta, Barun Kumar Analytic solution to the Lane-Emden equation. (English summary) **97j:34019**
Derevenskiĭ, V. P. General type of third-order linear differential equations in the adjoint representation of solvable Lie algebras. (Russian) **97m:34020**
Exton, Harold The exact solution of two new types of Schrödinger equation. (English summary) **97b:81012**
Ferrer, M. V. *see* **Navarro, E.; et al., 97g:34016**
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Jódar, Lucas *see* **Navarro, E.; et al., 97g:34016**
Lagno, G. O. *see* **Barannik, L. F., 97e:35076**
Letessier, Jean (*with* Valent, Galliano; Wimp, Jet) Some differential equations satisfied by hypergeometric functions. (English summary) **97a:33008**
Li, Hong Xiang (*with* Wang, Guo Jin; Wang, Cun Zheng) Exact solutions to some classes of Volterra integral equations and ordinary differential equations. (Chinese. English and Chinese summaries) **97k:45002**
Navarro, E. (*with* Ferrer, M. V.; Jódar, Lucas) Solving coupled systems of linear second order differential equations knowing a part of the spectrum of the companion matrix. II. (English summary) **97g:34016**
Oshima, Kunio (*with* Hofuku, Ichiro) Modified Gompertz curve and its applications. I. (English summary) (*see* **97f:00023**)
Rosić, Nikola Some properties of the particular solutions of differential equations. (English and Serbo-Croatian summaries)
Song, Guo Qiang The relationship and applications of two classifications in the qualitative study of quadratic systems. (Chinese. English and Chinese summaries)
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Wolf, Thomas Otto (*with* Brand, Andreas) Approaches to solving nonlinear ODEs. (English summary) **97j:34013**

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Balla, K. Linear subspaces for linear DAEs of index 1. (English summary) **97a:34004**
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Hervás, Antonio (*with* Villanueva Micó, R. J.; Law, A. G.; Weston, J. H.) Singularly-coupled, first-order linear differential systems: exact and approximate solutions. **97h:34004**
Kalachëv, L. V. (*with* O'Malley, Robert E., Jr.) The regularization of linear differential-algebraic equations. (English summary) **97a:34005**
Kunkel, Peter (*with* Mehrmann, Volker) Generalized inverses of differential-algebraic operators. (English summary) **97a:34006**
Law, A. G. *see* **Hervás, Antonio; et al., 97h:34004**
Matrosov, V. M. (*with* Finogenko, I. A.) On the existence of right-sided solutions of the differential equations of the dynamics of mechanical systems with dry friction. (Russian. Russian summary) **97j:34003**
— (*with* Finogenko, I. A.) On the theory of differential equations that arise in the dynamics of systems with friction. I. (Russian. Russian summary) **97j:34004**
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O'Malley, Robert E., Jr. *see* **Kalachëv, L. V., 97a:34005**
Pazíl, N. D. Normal forms of transversally singular quasilinear systems of Sobolev type. (Russian. Russian summary) **97m:34004**
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— (*with* Rheinboldt, Werner C.) Discontinuous solutions of semilinear differential-algebraic equations. II. $\mathcal{P}$-consistency. **97g:34007**
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Shcheglova, A. A. Investigation and solution of degenerate systems of ordinary differential equations by means of changes of variables. (Russian. Russian summary) **97b:34002**
Shtykel', T. L. On the theory of degenerate systems of ordinary differential equations. (Russian. Russian summary) **97a:34007**
Tischendorf, Caren Feasibility and stability behaviour of the BDF applied to index-2 differential algebraic equations. (English and German summaries) **97a:34008**
Villanueva Micó, R. J. *see* **Hervás, Antonio; et al., 97h:34004**
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Wijckmans, P. M. E. J. ★ Conditioning of differential algebraic equations and numerical solution of multibody dynamics. (Dutch summary) **97i:34004**

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Blajer, Wojciech (*with* Markiewicz, Andrzej) The effect of friction on multibody dynamics. (English summary) **97a:70009**

Davydov, Alexander A. (*with* Ortíz-Bobadilla, Laura) Smooth normal forms of folded elementary singular points. (English summary) **97a:58169**
Erjaee, G. H. The generalized eigenvalue problem and differential equations. (English summary) **97m:15008**
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Finogenko, I. A. *see* **Matrosov, V. M., 97m:34009**
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Hairer, Ernst (*with* Wanner, G.) ★ Solving ordinary differential equations. II. (English summary) **97m:65007**
Jankowski, Tadeusz (*with* Kwapisz, Marian) Convergence of numerical methods for systems of neutral functional-differential-algebraic equations. (English summary) **97b:65080**
Kossowski, Marek Fiber completions, contact singularities and single valued solutions for C^∞-second order ODE. (English summary) **97h:58008**
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März, Roswitha (*with* Tischendorf, Caren) Recent results in solving index-2 differential-algebraic equations in circuit simulation. (English summary) **97m:65122**
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Somali, Şennur The error analysis of the implicit trapezoidal rule for linear differential-algebraic systems of index μ. (English summary)
Strehmel, Karl (*with* Weiner, Rüdiger) ★ Numerik gewöhnlicher Differentialgleichungen. (German. German summary) [Numerics of ordinary differential equations] **97k:65001**
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Zhang, Qing Ling (*with* Fan, Zhi Ping) The Lyapunov equation for singular systems. (Chinese. English and Chinese summaries)

34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions

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Betina, Kamel ★ Indices d'opérateurs différentiels et solutions rationnelles. (French. English and French summaries) [Indices of differential operators and rational solutions] **97a:34009**
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— (*with* Binding, Paul A.) On Carathéodory's conditions for the initial value problem. (English summary) **97g:34008**
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Bochenek, Jan (*with* Winiarska, Teresa) Evolution equations with parameter in the hyperbolic case. (English summary) **97b:34003**
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— (*with* Kumpulainen, Martti; Seikkala, Seppo) Existence, uniqueness, and comparison results for a differential equation with discontinuous nonlinearities. (English summary) **97c:34007**
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Khokhlov, A. Yu. On the stability of solutions of stabilization problems. (Russian. Russian summary) **97i:34006**
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— On the correctness of the Cauchy problem for a linear differential system on an infinite interval. (English summary) **97e:34003**
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Mehri, B. (*with* Zokayi, A.) On the behavior of solutions of certain non-linear third order differential equation. **97m:34010**
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Dzhenaliev, M. T. On a quadratic functional in the Cauchy problem for a first-order loaded operator-differential equation. II. (Russian. Russian summary) **97j:34077**
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34A20 Differential equations in the complex domain [see also 30D05, 32G34]

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34A30 Linear equations and systems

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34D35 Stability of manifolds of solutions

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34D40 Ultimate boundedness

Huang, Li Hong (*with* Peng, Le Qun) Boundedness of solutions and periodic solutions for higher-order linear differential equations. (Chinese. English and Chinese summaries) **97j:34067**
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Hara, Tadayuki Ultimate boundedness criteria for functional-differential equations. (English summary) **97g:34097**
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Tunç, Cemil On the stability result for the solution of certain fourth order differential equations. **97g:34066**
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Zhang, Shu Nian Razumikhin type theorems on boundedness. (English summary) **97f:34054**
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Kloeden, Peter E. (*with* Schmalfuß, Björn) Lyapunov functions and attractors under variable time-step discretization. (English summary) **97c:34109**
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Wang, Xiang Rong (*with* Feng, Bin Lu; Han, Mao An) Global attractiveness of the zero solution to nonlinear differential equations and the existence of limit cycles surrounding higher-order singular points. (Chinese) **97k:34042**
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Megan, M. (*with* Buşe, C.) Dichotomies and Lyapunov functions in Banach spaces. **97j:34069**

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34Exx Asymptotic theory

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34E20 Singular perturbations, turning point theory, WKB methods

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34E99 None of the above, but in this section

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— (*with* Eizenberg, Alex; Wihstutz, Volker) Large noise asymptotics of invariant measures, with applications to Lyapunov exponents. (English summary) **97k:60156**
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Honerkamp, Josef ★ Stochastic dynamical systems. (English summary) **97g:82010**
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Wing, Philip L. (*with* Rao, A. N. V.) Stability analysis of stochastic bilinear systems. (English summary) (*see* **97a:00029**)
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Arov, D. Z. (*with* Gavrilyuk, I. P.; Makarov, Vladimir Leonidovich) Representation and approximation of solutions of initial value problems for differential equations in Hilbert space based on the Cayley transform. **97h:34074**
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Turyn, Lawrence A center-unstable manifold theorem for parametrically excited surface waves. (English summary) **97e:35143**
Umanskiĭ, Ya. I. On the existence of solutions of a class of evolution inclusions on a closed set. II. (Russian. Russian summary) **97c:34029**
Vatsala, A. S. *see* **Leela, S., 97m:34023**
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Vishik, Mark I. Non-autonomous evolution equations and their trajectory attractors. (English summary) (*see* **97m:00024**)
Wallace, Ronnie (*with* Sloan, David M.) Numerical solution of a nonlinear dissipative system using a pseudospectral method and inertial manifolds. (English summary) **97b:65136**
Wang, Jia Yi Existence of sample maximal and minimal solutions of stochastic differential equations in Banach spaces. (Chinese. English and Chinese summaries)
Wang, Zhi Hua (*with* Liu, Xiao Hua) Boundary value problems for second-order differential inclusions in Banach spaces. I. (Chinese. English and Chinese summaries) **97i:34023**
— Existence of solutions to integrodifferential inclusions of mixed type in Banach spaces. (Chinese. English and Chinese summaries)
Ward, James R., Jr. Bifurcating continua in infinite-dimensional dynamical systems and applications to differential equations. (English summary) **97b:58130**
— A global continuation theorem and bifurcation from infinity for infinite-dimensional dynamical systems. (English summary) **97h:58039**
Witt, Ingo ★ Nichtlineare hyperbolische Evolutionsgleichungen in Gebieten mit konischen Singularitäten. (German) [Nonlinear hyperbolic evolution equations in domains with conical singularities] **97h:35134**
— ★ Non-linear hyperbolic equations in domains with conical points. (English summary) **97a:35159**
— Existence and continuity of the attractor for a singularly perturbed hyperbolic equation. (English summary) **97m:35182**
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Xia, Yong Jun The sample solution of a stochastic Cauchy problem in an abstract space. (Chinese. English and Chinese summaries) **97d:34067**
Xue, Xing Mei (*with* Song, Guo Zhu) Multivalued perturbation to nonlinear differential inclusions with memory in Banach spaces. (English summary) **97c:34030**
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Yan, Yin Attractors and error estimates for discretizations of incompressible Navier-Stokes equations. (English summary) **97i:76043**
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Zhang, Fu Bao Two existence theorems for solutions to differential inclusions. (Chinese. English and Chinese summaries)
Zhang, Ke Wei[2] Dynamical systems generated by the modified Navier-Stokes equations. I. (Chinese. English and Chinese summaries) **97f:76024**
Zhang, Zhi Tao New fixed point theorems of mixed monotone operators and applications. (English summary) **97m:47086**
Zhao, Yi[1] The approximate weak inertial manifolds of a class of nonlinear hyperbolic dynamical systems. (English summary) **97h:35141**
Zhu, Qingxin (*with* Ahmed, Nasir Uddin) Some results on parabolic equations in Banach space. **97a:35249**

34G99 None of the above, but in this section

Items with secondary classifications in 34G99

Buşe, C. *see* **Megan, M., 97j:34069**
Lauro, Giuliana (*with* Totaro, Silvia) A problem of outgassing and contamination with multiplying boundary conditions. (English summary) **97b:82091**
Megan, M. (*with* Buşe, C.) Dichotomies and Lyapunov functions in Banach spaces. **97j:34069**
Totaro, Silvia *see* **Lauro, Giuliana, 97b:82091**

34H05 Control problems [see also 49J25, 49K25, 93C15]

Miller, B. M. The generalized solutions of ordinary differential equations in the impulse control problems. (English summary) **97e:34121**

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Afanas'ev, V. N. (*with* Kolmanovskiĭ, V. B.; Nosov, V. R.) ★ Mathematical theory of control systems design. (English summary) **97i:93001**
Ahmed, Nasir Uddin Optimal control of infinite-dimensional systems governed by functional-differential inclusions. (English summary) **97a:49008**
Aĭsagaliev, S. A. On the theory of boundary value problems for ordinary differential equations. (Russian. English, Russian and Kazakh summaries) **97i:34028**
Albertini, Francesca (*with* D'Alessandro, Domenico) Asymptotic stability of continuous-time systems with saturation nonlinearities. (English summary) **97i:34066**
Al-Jurani, S. K. *see* **Banks, S. P., 97i:34068**
Avgerinos, Evgenios P. On periodic solutions of multivalued nonlinear evolution equations. (English summary) **97g:34022**
— Optimal control of differential inclusions with state constraints. **97j:49008**
Banks, S. P. (*with* Al-Jurani, S. K.) Pseudo-linear systems, Lie algebras, and stability. (English summary) **97i:34068**
Barron, Emmanuel N. (*with* Liu, Wenxiong) Optimal control of the blowup time. (English summary) **97a:49032**
Basker, V. R. *see* **Latchman, Haniph A.; et al., 97m:93059**
Bélair, Jacques Stability in delayed neural networks. (*see* **97i:34003**)
Bianchini, R. M. (*with* Margheri, A.) First-order differentiability of the flow of a system with L^p controls. (English summary) **97d:93017**
Bonnard, B. (*with* Launay, G.; Pelletier, Michèle) Classification générique de synthèses temps minimales avec cible de codimension un et applications. (English and French summaries) [Generic classification of time-minimal syntheses with target of codimension one and applications] **97m:49016**
Borne, P. *see* **Perruquetti, W.; et al., 97h:34060**
Borukhov, V. T. Controlled invariant flags in the state space of linear autonomous finite-dimensional dynamical systems. (Russian. Russian summary) **97h:93013**
Bossart, Theodore C. Hyperbolic functions that linearize inverted manifold surfaces. (English summary) **97h:93029**
Burnosov, S. V. (*with* Kozlov, R. I.) An investigation of the dynamics of nonlinear systems with uncertainty and perturbations using the method of vector Lyapunov functions. II. (Russian. Russian summary) **97f:93043**
Carr, Thomas W. (*with* Schwartz, Ira B.) Symmetry-breaking control of splay-phase states in globally coupled oscillators. (English summary) **97i:34046**
Chan, Ho Chung (*with* Ho, D. W. C.) An approach to stabilize a second-order system via linear matrix inequality. (English summary) (*see* **97i:65007**)
(Chapovskiĭ, Yu. A.) *see* **Samollenko, A. M., 97i:34002**

Christofides, Panagiotis D. (*with* Teel, Andrew R.) Singular perturbations and input-to-state stability. (English summary) **97j:93043**
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Frankowska, Halina How set-valued maps pop up in control theory. (English summary) **97k:93004**
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Galduk, A. R. On the investigation of the stability of linear systems. (Russian. Russian summary)
Gao, Cun Chen (*with* Liu, Yong Qing) Stability for a kinds of variable structure control systems. (English summary)
Genesio, R. *see* **Tesi, A.; et al., 97k:93049**
Grammel, Götz Singularly perturbed differential inclusions: an averaging approach. (English summary) **97m:34033**
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Jghima, Hamid (*with* Outbib, Rachid) A remark on the stabilization of homogeneous polynomial systems. (English summary) **97a:93047**
Kabanov, Yu. M. (*with* Runggaldier, Wolfgang J.) On control of two-scale stochastic systems with linear dynamics in the fast variables. (English summary) **97m:49027**
Karakostas, George An approximate controllability problem and the Jacobian conjecture for G.A.S. (English summary) **97a:93011**
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Kolmanovskiĭ, V. B. *see* **Afanas'ev, V. N.; et al., 97i:93001**
Komarov, V. A. A method for describing the evolution of the attainability set of a differential inclusion. (Russian) **97j:34022**
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Krasnosel'skiĭ, A. M. On forced oscillations in systems with even unbounded functional characteristics. (Russian. Russian summary) **97m:34076**
Kremlëv, A. G. Approximation of the optimal solution in the minimax problem of the control of a singularly perturbed quasilinear system. (Russian. Russian summary) **97c:49030**
Kryazhimskiĭ, Arkadiĭ V. (*with* Maksimov, Vyacheslav; Osipov, Yuriĭ Sergeevich) On the reconstruction of extremal perturbations in parabolic equations. (Russian. Russian summary) **97m:93044**
Kurina, G. A. On the behavior of the attainability sets of linear matrix-singularly perturbed systems. (Russian) **97g:49032**
Kurzhanskiĭ, A. B. (*with* Filippova, T. F.) Differential inclusions with phase constraints. The perturbation method. (Russian) **97m:34035**
Lakshmanan, M. (*with* Rajasekar, S.) Directing chaotic systems to regular motion. (English summary) **97m:70043**
Latchman, Haniph A. (*with* Crisalle, Oscar D.; Basker, V. R.) The Nyquist robust stability margin—a new metric for the stability of uncertain systems. (English summary) **97m:93059**
Launay, G. *see* **Bonnard, B.; et al., 97m:49016**
Leach, J. A. (*with* Triantafillidis, S.; Owens, David H.; Townley, Stuart) The dynamics of universal adaptive stabilization: computational and analytical studies. (English summary) **97b:93085**
Legen'kiĭ, V. I. Point symmetries of controlled systems and their applications. (English summary) **97d:93019**
Li, Ning Xiang State analysis of a class of generalized Lanchester models. (Chinese. English and Chinese summaries)
Lin, Yuan Dan (*with* Sontag, Eduardo D.; Wang, Yuan[2]) A smooth converse Lyapunov theorem for robust stability. (English summary) **97a:93044**
Liu, Wenxiong *see* **Barron, Emmanuel N., 97a:49032**
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— (*with* Sotomayor, Jorge) Phase portraits of planar control systems. **97j:34037**
Maksimov, Vyacheslav Approximation of an inverse problem for variational inequalities. (English summary) **97j:49015**
— *see also* **Kryazhimskiĭ, Arkadiĭ V.; et al., 97m:93044**
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Matyukhin, V. I. Strong stability of the motions of mechanical systems. (Russian. Russian summary) **97a:93050**
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Montgomery, Richard Singular extremals on Lie groups. (English summary) **97h:58055**
Motta, Monica (*with* Rampazzo, Franco) Dynamic programming for nonlinear systems driven by ordinary and impulsive controls. (English summary) **97c:49037**
Nosov, V. R. *see* **Afanas'ev, V. N.; et al., 97i:93001**
Osipov, Yuriĭ Sergeevich *see* **Kryazhimskiĭ, Arkadiĭ V.; et al., 97m:93044**
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Panasyuk, A. I. Quasidifferential equations in a complete metric space under Carathéodory-type conditions. I. (Russian. Russian summary) **97j:49009**
Papageorgiou, Nikolaos S. Existence theory for nonlinear distributed parameter optimal control problems. (English summary) **97a:49009**
Pelletier, Michèle *see* **Bonnard, B.; et al., 97m:49016**
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Perruquetti, W. (*with* Richard, Jean-Pierre; Borne, P.) Vector Lyapunov functions: recent developments for stability, robustness, practical stability, and constrained control. (English summary) **97h:34060**
Petrova, V. V. (*with* Tonkov, E. L.) Admissibility of periodic processes and existence theorems for periodic solutions. I. (Russian) **97m:34078**
Piccoli, Benedetto Classification of generic singularities for the planar time-optimal synthesis. (English summary) **97h:49051**
Ponce, Enrique *see* **Llibre, Jaume, 97m:93041**
Popova, S. N. (*with* Tonkov, E. L.) Control of Lyapunov exponents of consistent systems. III. (Russian. Russian summary) **97f:93033**
Rajasekar, S. *see* **Lakshmanan, M., 97m:70043**
Rampazzo, Franco *see* **Motta, Monica, 97c:49037**
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Samoilenko, A. M. (*with* Perestyuk, N. A.) ★ Impulsive differential equations. **97i:34002**
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Sizova, N. A. Some bifurcations of the controllability regions of bilinear systems. (Russian. Russian summary) **97e:93022**
Smagina, E. M. ★ Вопросы анализа линейных многомерных объектов с использованием понятия нуля системы. (Russian. Russian summary) [Problems in the analysis of linear multidimensional plants using the concept of a zero of a system] **97a:93001**
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Tesi, A. (*with* Villoresi, F.; Genesio, R.) On the stability domain estimation via a quadratic Lyapunov function: convexity and optimality properties for polynomial systems. (English summary) **97k:93049**
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(Trofimchuk, S. I.) *see* **Samoilenko, A. M., 97i:34002**
Tsinias, J. Erratum: "A global stabilization theorem for planar nonlinear systems" [Internat. J. Robust Nonlinear Control **5** (1995), no. 8, 719–729; MR 96k:93066]. (*see* **97c:93008**)
Tsoi, Allanus H. (*with* Zhang, Bo) Lyapunov functions in weak exponential stability and controlled stochastic systems. (English summary) **97j:93058**
Vigodner, Alexander Limits of singularly perturbed control problems with statistical dynamics of fast motions. (English summary) **97m:49026**
Villoresi, F. *see* **Tesi, A.; et al., 97k:93049**
Wang, Long Robust stability of a class of polynomial families under nonlinearly correlated perturbations. (English summary) **97j:93045**
Wang, Yuan[2] *see* **Lin, Yuan Dan; et al., 97a:93044**
Wirl, F. Pathways to Hopf bifurcations in dynamic continuous-time optimization problems. (English summary) **97k:49034**
Wu, Qiang (*with* Shi, Wei Guo; Shen, Mai Jun) The solutions of a class of generalized Lanchester models and some conclusions. (Chinese. English and Chinese summaries)
Xiao, Shu Xian A conjugate theorem on absolute stability and its applications. (Chinese. English and Chinese summaries)
Zhang, Bo *see* **Tsoi, Allanus H., 97j:93058**
Zhang, Chengyan Existence of forecast and decision horizons for optimal control problems of nonlinear systems. (English summary) **97j:49029**
Zhang, Qing Ling (*with* Fan, Zhi Ping) The Lyapunov equation for singular systems. (Chinese. English and Chinese summaries)
— (*with* Fan, Zhi Ping) Riccati equations for descriptor systems. (Chinese. English and Chinese summaries)
Zhu, Qiji J. Necessary optimality conditions for nonconvex differential inclusions with endpoint constraints. (English summary) **97c:49026**

34Kxx Functional-differential and differential-difference equations, with or without deviating arguments

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Antonevich, Anatoliĭ B. (*with* Lebedev, A. V.) ★ Functional-differential equations. I. C^*-theory. (English summary) **97e:46072**
Azbelev, N. V. (*with* Maksimov, V. P.; Rakhmatullina, L.) ★ Introduction to the theory of linear functional-differential equations. **97m:34002**
Lebedev, A. V. *see* **Antonevich, Anatoliĭ B., 97e:46072**
Maksimov, V. P. *see* **Azbelev, N. V.; et al., 97m:34002**
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34K05 General theory

Augustynowicz, Antoni On the uniqueness of solutions of functional-differential equations with nonincreasing right-hand sides. (English summary) **97g:34084**
Azbelev, N. V. Recent trends in the theory of nonlinear functional-differential equations. (English summary) (*see* **97a:00029**)

Belitskiĭ, G. R. (*with* Nikolaevsky, V.) Extension theorem for functional-differential equations on the line. (English summary) **97h:34089**
Brandi, Primo (*with* Marcelli, Cristina) Uniqueness and continuous dependence for Carathéodory solutions of functional Cauchy problem. **97f:34043**
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Brykalov, S. A. Problems with a deviating argument and functional boundary conditions. (Russian) **97c:34130**
Cao, Yulin (*with* Gard, Thomas C.) Ultimate bounds and global asymptotic stability for differential delay equations. (English summary) **97a:34175**
Cherepennikov, V. B. On the solvability in the class of analytic functions of some linear systems of functional-differential equations in a neighborhood of a regular singular point. (Russian) **97k:34093**
— Singular analytic solutions of some linear systems of functional-differential equations in a neighborhood of a regular singular point. (Russian. Russian summary) **97h:34090**
Chew, Tuan-Seng (*with* van-Brunt, B.; Wake, Graeme C.) On retarded functional-differential equations and Henstock-Kurzweil integrals. (English summary) **97a:34176**
Constantin, Adrian Topological transversality: application to an integrodifferential equation. **97a:34177**
Cooke, Kenneth L. (*with* Derfel, Gregory) On the sharpness of a theorem by Cooke and Verduyn Lunel. (English summary) **97d:34073a**
— (*with* Derfel, Gregory) Corrigendum: "On the sharpness of a theorem by Cooke and Verduyn Lunel". **97d:34073b**
Derfel, Gregory *see* **Cooke, Kenneth L., 97d:34073a** *and* **97d:34073b**
Dougias, S. K. (*with* Tsamatos, P. Ch.) Global existence for second order functional-differential equations. **97c:34131**
Drakhlin, Mikhail E. (*with* Litsyna, E. M.) Functional-differential equations with non-Volterra operator. (English summary) (*see* **97a:00029**)
Gard, Thomas C. *see* **Cao, Yulin, 97a:34175**
Geba, Dan-Andrei Functional-differential equations with delay in Hilbert space.
Győri, István (*with* Pituk, M.) L^2-perturbation of a linear delay differential equation. (English summary) **97e:34122**
— Asymptotic periodicity in impulsive differential equations of retarded type with applications to compartmental models. (English summary) (*see* **97a:00029**)
Hou, Zhanyuan Existence and uniqueness for a class of mixed type differential equations. (English summary) **97j:34090**
Hu, Shi Geng Functional integral equations and integral inequalities with infinite delay. (Chinese. English and Chinese summaries) **97c:34132**
Karydas, Nicholas Asymptotic behaviour of the solutions of a neutral delay differential equation with piecewise constant argument. (English summary) **97b:34071**
Konyukhova, N. B. Singular Cauchy problems for some systems of nonlinear functional-differential equations. (Russian. Russian summary) **97i:34093**
Kozakiewicz, Erwin Conditions for the absence of positive solutions of a first order differential inequality with a single delay. (English summary) **97e:34133**
Li, Yuan Qing (*with* Liu, Yong Qing) Basic theory and exponential estimates of solutions for a class of singular linear functional-differential equations with delay. (English summary) **97e:34123**
Li, Zhi Xiang *see* **Shi, Bao; et al.**
Lin, Yi Zhong Necessary and sufficient conditions for oscillation of a class of functional-differential equations of mixed type. (Chinese. English and Chinese summaries)
Litsyna, E. M. *see* **Drakhlin, Mikhail E., (97a:00029)**
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Lu, Wu Du Existence of nonoscillatory solutions to first-order neutral equations with variable coefficients. (Chinese. English and Chinese summaries)
Maksimov, V. P. (*with* Rumyantsev, A. N.; Shishkin, V.) On constructing solutions of functional-differential systems with a guaranteed precision. (English summary) **97k:34094**
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Myshkis, Anatolii D. Autonomous differential equations with impulsive self-support and infinite delay. **97k:34095**
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Rumyantsev, A. N. *see* **Maksimov, V. P.; et al., 97k:34094**
Shen, Jian Hua (*with* Yu, Jian She) Oscillation of solutions of a class of first order nonlinear differential equations with time lag. (Chinese. Chinese summary) **97b:34072**
Shi, Bao (*with* Wang, Zhi Cheng[1]; Li, Zhi Xiang) The fundamental asymptotic behavior of the solutions to a new class of functional-differential equations. (Chinese. English and Chinese summaries)
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Taunton, R. Denise (*with* Yin, William K. C.) Existence of solutions of some functional-differential equations. (English summary) **97i:34095**
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Verduyn Lunel, Sjoerd M. A resolvent computation related to completeness for compact operators. (English summary) **97b:34073**
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Wang, Ke[1] Local theory for retarded equations with infinite delay. (English summary) **97b:34074**
— A class of functional-differential equations with complicated deviating arguments. (Chinese. English and Chinese summaries)
Wang, Zhi Cheng[1] *see* **Shi, Bao; et al.**
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Yu, Yuan Hong (*with* Yu, Wen Sheng) Nonoscillating solutions to higher-order functional-differential equations. (Chinese)

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Ahlip, R. A. (*with* King, R. R.) Global asymptotic stability of a periodic system of delay logistic equations. (English summary) **97b:45005**
de Avellar, Cerino Ewerton (*with* Garcia, Lizete Maria Crnkowise Fernandes; Marconato, Suzinei Aparecida Siqueira) Difference equations with retarded arguments. (English and Portuguese summaries) **97a:39001**
Aves, Mark A. (*with* Davies, Penny J.; Higham, Desmond J.) Fixed points and spurious modes of a nonlinear infinite-step map. (English summary) **97m:45015**
Brandi, Primo (*with* Ceppitelli, Rita) A new graph topology. Connections with the compact open topology. (English summary) **97b:54023**
Burton, T. A. An integral equation of advanced and retarded type. (English summary) **97b:45012**
Ceppitelli, Rita *see* **Brandi, Primo, 97b:54023**
Čermák, Jan Note on simultaneous solutions of a system of Schröder's equations. (English summary) **97b:39037**
Clarke, F. H. (*with* Wolenski, P. R.) Necessary conditions for functional-differential inclusions. (English summary) **97c:49028**
Constantin, Adrian Global existence of solutions for perturbed differential equations. (English summary) **97a:34020**
Dauylbaev, M. K. (*with* Surapbergenova, Z. A.) An estimate for the solutions of the Cauchy problem with an initial jump of first order for third-order singularly perturbed integro-differential equations. (Russian. English, Russian and Kazakh summaries) **97j:45006**
Davies, Penny J. *see* **Aves, Mark A.; et al., 97m:45015**
Diekmann, Odo (*with* van Gils, Stephan A.; Verduyn Lunel, Sjoerd M.; Walther, Hans-Otto) ★ Delay equations. (English summary) **97a:34001**
Erbe, L. H. (*with* Guo, Da Jun) Method of upper and lower solutions for nonlinear integrodifferential equations of mixed type in Banach spaces. (English summary) **97a:45016**
Garcia, Lizete Maria Crnkowise Fernandes *see* **de Avellar, Cerino Ewerton; et al., 97a:39001**
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34K25 Asymptotic theory

Derfel, Gregory (*with* Vogl, F.) On the asymptotics of solutions of a class of linear functional-differential equations. (English summary) **97k:34122**
Gallardo, Julio (*with* Pinto, Manuel) Asymptotic integration of nonautonomous delay-differential systems. (English summary) **97h:34111**
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Furumochi, Tetsuo A Lyapunov-Razumikhin method for functional-differential equations. (English summary) (*see* **97a:00029**)
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Győri, István (*with* Pituk, M.) L^2-perturbation of a linear delay differential equation. (English summary) **97e:34122**
— (*with* Pituk, M.) Comparison theorems and asymptotic equilibrium for delay differential and difference equations. (English summary) **97d:34076**
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34K30 Equations in abstract spaces [see also 34Gxx]

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Aliev, R. G. On the solvability of an initial value problem for an equation with retarded argument with unbounded operator coefficients. (Russian) **97e:34144**
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Hino, Yoshiyuki (*with* Murakami, Satoru) Existence of an almost periodic solution of abstract linear functional-differential equations with infinite delay. (English summary) **97d:34088**
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Jung, Jong Soo (*with* Park, Jong Seo; Ahn, Jong Heon) Existence results for nonlinear functional evolution equations and compactness of solutions in $L^p([s,T];X)$. (English summary) **97m:34158**
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Sun, Da Qing Global behavior of solutions to a class of multivalued evolution equations with delays. (Chinese. English and Chinese summaries)
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Aizicovici, Sergiu (*with* Barbu, Viorel) Periodic solutions for a second order semilinear Volterra equation. **97b:45001**
— (*with* Ding, Yimin; Papageorgiou, Nikolaos S.) Time dependent Volterra integral inclusions in Banach spaces. (English summary) **97f:34010**
Aulbach, Bernd (*with* Nguyễn Văn Minh) Semigroups and exponential stability of nonautonomous linear differential equations on the half-line. (English summary) **97b:47038**
Bahuguna, D. (*with* Srivastava, Sanjay K.) Approximation of solutions to evolution integrodifferential equations. (English summary) **97k:45006**
Bainov, Drumi D. (*with* Mishev, D.) ★ Oscillation theory of operator-differential equations. **97a:34086**
— (*with* Dimitrova, Margarita B.) Sufficient conditions for oscillation and nonoscillation of the solutions of operator-differential equations with piecewise constant argument. (English summary) **97a:34183**
Balachandran, Krishnan (*with* Balasubramaniam, P.; Dauer, J. P.) Local null controllability of nonlinear functional-differential systems in Banach space. (English summary) **97b:93009**
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Gil', M. I. ★ Norm estimations for operator-valued functions and applications. (English summary) **97h:47002**
Guo, Da Jun (*with* Liu, Xinzhi) First order impulsive integro-differential equations on unbounded domain in a Banach space. (English summary) **97g:45006**
— (*with* Liu, Xinzhi) Periodic boundary value problems for impulsive integro-differential equations in Banach spaces. (English summary) **97j:45007**
Hale, Jack K. Coupled oscillators on a circle. (English summary) **97d:58143**
Hino, Yoshiyuki (*with* Murakami, Satoru) Stability properties in abstract linear functional-differential equations with infinite delay. (English summary) **97e:34141**
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Liu, James H. A necessary condition for an asymptotic property in integrodifferential equations. (English summary) **97j:45011**
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34K35 Control problems [see also 49J25, 49K25, 93C15]

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Ahmed, Nasir Uddin (*with* Xiang, Xiao Ling) Nonlinear boundary control of semilinear parabolic systems. (English summary) **97a:49030**
Andriano, V. (*with* Bacciotti, A.; Beccari, G.) Global stability and external stability of dynamical systems. **97m:58111**
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Balachandran, Krishnan (*with* Balasubramaniam, P.; Dauer, J. P.) Local null controllability of nonlinear functional-differential systems in Banach space. (English summary) **97b:93009**
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Habets, Luc C. G. J. M. On the genericity of stabilizability for time-delay systems. (English summary) **97c:93076**
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Jiang, Wei Function-controllability of nonlinear neutral control systems. (Chinese. English and Chinese summaries)
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Kolmanovskiĭ, V. B. (*with* Shaĭkhet, L. E.) ★ Control of systems with aftereffect. (English summary)
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Kauffman, Robert M. ★ Eigenfunction expansions, operator algebras and Riemannian symmetric spaces. (English summary) **97j:47031**
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Dyadechko, A. V. An asymptotic mean-value formula for root functions of a matrix differential operator with a diagonal-matrix eigenvalue. (Russian. Russian summary) **97h:34121**
Englander, János (*with* Pinsky, Ross G.) The asymptotic behavior of the principal eigenvalue for small perturbations of critical one-dimensional Schrödinger operators with $V(x) = l_{\pm}/x^2$ for $\pm x \gg 1$. (English summary) **97c:34177**
Fulton, Charles T. (*with* Pruess, Steven A.) Erratum: "Eigenvalue and eigenfunction asymptotics for regular Sturm-Liouville problems" [J. Math. Anal. Appl. **188** (1994), no. 1, 297–340; MR 96e:34144]. **97f:34071**
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Stahlhofen, A. A. A remark on von Neumann-Wigner type potentials. (English summary) **97k:81152**
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Volkmer, Hans Quadratic growth of convergence radii for eigenvalues of two-parameter Sturm-Liouville equations. (English summary) **97d:34025**

34L25 Scattering theory

Aktosun, Tuncay (*with* Klaus, Martin; van der Mee, Cornelis V. M.) Factorization of scattering matrices due to partitioning of potentials in one-dimensional Schrödinger-type equations. (English summary) **97j:34111**
Alpay, Daniel (*with* Gohberg, Israel; Sakhnovich, Lev A.) Inverse scattering problem for continuous transmission lines with rational reflection coefficient function. (English summary) **97f:34072**
— (*with* Gohberg, Israel) Inverse scattering problem for differential operators with rational scattering functions. (English summary) **97j:34112**
Behncke, Horst (*with* Rejto, Peter) A limiting absorption principle for separated Dirac operators with Wigner-von Neumann type potentials. **97a:34227**
Darwish, A. A. On an inverse scattering problem with a discontinuous coefficient on the whole line. (English and Arabic summaries) **97e:34155**
Egikyan, R. S. (*with* Zhidkov, E. P.) ★ О решении обратной задачи рассеяния на всей оси. (Russian. English and Russian summaries) [On the solution of the inverse scattering problem on the whole axis]
Gohberg, Israel *see* **Alpay, Daniel; et al., 97f:34072** *and* **97j:34112**
Gylys-Colwell, Fred *see* **Sylvester, John; et al., 97d:34093**
Kincanon, Eric Ambiguities and almost reflectionless potentials. (English summary) **97k:34133**
Klaus, Martin *see* **Aktosun, Tuncay; et al., 97j:34111**
van der Mee, Cornelis V. M. *see* **Aktosun, Tuncay; et al., 97j:34111**
Ohmiya, Mayumi Miura transformation and S-matrix. (English summary) **97g:34109**
Rejto, Peter *see* **Behncke, Horst, 97a:34227**
Sakhnovich, Lev A. *see* **Alpay, Daniel; et al., 97f:34072**
Sylvester, John (*with* Winebrenner, Dale; Gylys-Colwell, Fred) Layer stripping for the Helmholtz equation. (English summary) **97d:34093**
Winebrenner, Dale *see* **Sylvester, John; et al., 97d:34093**
Zhidkov, E. P. *see* **Egikyan, R. S.**

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Abd-El-Raheem, Zaki F. On the scattering problem for the Sturm-Liouville equation on the half line with sign valued weight coefficient. (English summary) **97d:34021**
Arsen'ev, A. A. Resonance properties of the scattering matrix for the one-dimensional Schrödinger operator with confining potential. (Russian. Russian summary) **97j:81371**
Corona-Corona, Guimaro Hamiltonian structure for degenerate AKNS systems. (English summary) **97j:58046**
Darwish, A. A. On an inverse scattering method for solving non-linear equations in non-homogeneous media. (English summary) **97i:35151**
— On a direct and inverse scattering problem for a boundary value problem with discontinuous coefficient. (English summary) **97f:34009**
van Dijk, W. *see* **Kiers, K. A., 97j:81372**
Dix, Daniel B. Applications of Clifford analysis to inverse scattering for the linear hierarchy in several space dimensions. (English summary) **97a:35003**

Emamirad, H. (*with* Protopopescu, Vladimir) The Liouville equation in L^1 spaces. (English summary) **97b:35025**
Firsova, N. E. On the time decay of a wave packet in a one-dimensional finite band periodic lattice. (English summary) **97d:81036**
Jeffrey, Alan *see* **Zhang, Lian Ping**, **97f:35197**
Kiers, K. A. (*with* van Dijk, W.) Scattering in one dimension: the coupled Schrödinger equation, threshold behaviour and Levinson's theorem. (English summary) **97j:81372**
Kurasov, P. Inverse scattering problem on the half-line and positon solutions of the KdV equation. (English summary) (*see* **97j:58002**)
Mel'nikov, V. K. The method of integration of the nonlinear Schrödinger equation with a source. (English summary) **97a:35219**
Miller, Judith R. (*with* Weinstein, Michael I.) Asymptotic stability of solitary waves for the regularized long-wave equation. (English summary) **97i:35121**
Novitskiĭ, M. V. The motion integrals for the KdV equation and related inverse problems. (English summary) **97a:34034**
Phạm Lọ'i Vũ Soliton solutions of a system of non-linear equations and of the non-linear Schrödinger equations. (English summary) **97a:35220**
Protopopescu, Vladimir *see* **Emamirad, H.**, **97b:35025**
Ramond, Thierry Semiclassical study of quantum scattering on the line. (English summary) **97d:81050**
Stahlhofen, A. A. A remark on von Neumann-Wigner type potentials. (English summary) **97k:81152**
Suzko, A. A. Generalized algebraic Bargmann-Darboux transformations. (English summary) **97m:34166**
Trgo, Aurelija Monodromy matrix for linear difference operators with almost constant coefficients. (English summary) **97k:39008**
Weinstein, Michael I. *see* **Miller, Judith R.**, **97i:35121**
Zhang, Lian Ping (*with* Jeffrey, Alan) Stability of the Cauchy problem for the Korteweg-de Vries equation. II. **97f:35197**

34L30 Nonlinear ordinary differential operators

Items with secondary classifications in 34L30

Arias, Margarita (*with* Campos, Juan[2]) Fučik spectrum of a singular Sturm-Liouville problem. **97g:34029**
Bartušek, Miroslav (*with* Došlá, Zuzana; Graef, John R.) Limit-point type results for nonlinear fourth-order differential equations. **97h:34055**
Campos, Juan[2] *see* **Arias, Margarita**, **97g:34029**
Došlá, Zuzana *see* **Bartušek, Miroslav; et al.**, **97h:34055**
Graef, John R. *see* **Bartušek, Miroslav; et al.**, **97h:34055**
Küpper, Tassilo (*with* Tertikas, Achilles) A global branch of positive solutions above the continuous spectrum for problems with indefinite nonlinearities. (English summary) **97h:34022**
Malov, A. A. Some properties of the root functions of an even-order ordinary differential operator. (Russian. Russian summary) **97a:47071**
Nowakowski, Andrzej (*with* Rogowski, Andrzej) Duality and variational principles for nonlinear hyperbolic equations. (*see* **97a:00029**)
Rogowski, Andrzej *see* **Nowakowski, Andrzej**, (**97a:00029**)
Shibata, Tetsutaro Asymptotic behavior of variational eigenfunctions for nonlinear Sturm-Liouville problems. (English summary) **97d:34023**
— Spectral asymptotics and bifurcation for nonlinear multiparameter elliptic eigenvalue problems. (English summary) **97k:34030**
— On spectral asymptotics for nonlinear Sturm-Liouville problems. (English summary) **97j:34027**
Tertikas, Achilles *see* **Küpper, Tassilo**, **97h:34022**

34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

Allakhverdiev, B. P. *see* **Maksudov, F. G.**, **97d:34095**
Arnol'd, V. I. (*with* Kalf, Hubert; Schneider, Albert[1]) Separated Dirac operators and asymptotically constant linear systems. **97i:34119**
Arutyunyan, T. N. Isospectral Dirac operators. (Russian. English and Russian summaries) **97m:34163**
Athanassoulis, Gerassimos A. (*with* Papanicolaou, Vassilis G.) Eigenvalue asymptotics of layered media and their applications to the inverse problem. (English summary) **97m:34164**
Gesztesy, Fritz (*with* Holden, Helge; Simon, Barry; Zhao, Zhong Xin) Higher order trace relations for Schrödinger operators. (English summary) **97d:34094**
Hajmirzaahmad, Mojdeh Laguerre polynomial expansions. (English summary) **97a:34228**
Holden, Helge *see* **Gesztesy, Fritz; et al.**, **97d:34094**
Il'in, Vladimir Aleksandrovich (*with* Kritskov, L. V.) An estimate for the spectral function of the one-dimensional Stark-effect Hamiltonian. (Russian. Russian summary) **97j:34113**
Kadiev, R. I., Jr. On the eigenvalues and eigenfunctions of a class of Sturm-Liouville operators with a singular potential. (Russian) **97k:34134**
Kalf, Hubert *see* **Arnol'd, V. I.; et al.**, **97i:34119**
Kritskov, L. V. *see* **Il'in, Vladimir Aleksandrovich**, **97j:34113**
Kurkina, A. V. An estimate, uniform on the whole line, for the integral of the square of fundamental functions of the Schrödinger operator with a matrix potential whose elements are uniformly locally summable. (Russian. Russian summary) **97i:34120**
Lažetić, Nebojša L. Estimates for derivatives and integrals of eigenfunctions and associated functions of nonselfadjoint Sturm-Liouville operator with discontinuous coefficients. I. (English summary) **97m:34165**
Maksudov, F. G. (*with* Allakhverdiev, B. P.) On the spectral theory of nonselfadjoint Dirac operators. (Russian) **97d:34095**
Papanicolaou, Vassilis G. *see* **Athanassoulis, Gerassimos A.**, **97m:34164**
Schneider, Albert[1] *see* **Arnol'd, V. I.; et al.**, **97i:34119**
Simon, Barry (*with* Zhu, Yunfeng) The Lyapunov exponents for Schrödinger operators with slowly oscillating potentials. (English summary) **97g:34110**
— Some Schrödinger operators with dense point spectrum. (English summary) **97c:34179**
— *see also* **Gesztesy, Fritz; et al.**, **97d:34094**
Stakun, A. A. Properties of the Schrödinger operator with a complex-valued potential. (Russian. Russian summary) **97j:34114**
Suzko, A. A. Generalized algebraic Bargmann-Darboux transformations. (English summary) **97m:34166**
Zhao, Zhong Xin *see* **Gesztesy, Fritz; et al.**, **97d:34094**
Zhu, Yunfeng *see* **Simon, Barry**, **97g:34110**

Items with secondary classifications in 34L40

Aktosun, Tuncay (*with* Klaus, Martin; van der Mee, Cornelis V. M.) Factorization of scattering matrices due to partitioning of potentials in one-dimensional Schrödinger-type equations. (English summary) **97j:34111**
Al-Naggar, I. (*with* Pearson, D. B.) Quadratic forms and solutions of the Schrödinger equation. (English summary) **97m:81008**
Antoniu, I. *see* **Il'in, Vladimir Aleksandrovich**, **97k:34129**
Arsen'ev, A. A. Resonance properties of the scattering matrix for the one-dimensional Schrödinger operator with confining potential. (Russian. Russian summary) **97j:81371**
Behncke, Horst (*with* Rejto, Peter) A limiting absorption principle for separated Dirac operators with Wigner-von Neumann type potentials. **97a:34227**
Bikbaev, Ramil' Faritovich Local coordinates on a manifold of finite-gap solutions of the KdV equation. (Russian. English and Russian summaries) **97e:35151**
Birman, Mikhail S. The discrete spectrum of the periodic Schrödinger operator perturbed by a decreasing potential. (Russian. Russian summary) **97h:47047**
Briet, Philippe (*with* Mourre, E.) Some resolvent estimates for Sturm Liouville operators. (English summary) **97h:34028**
Buschmann, D. (*with* Stolz, Günter; Weidmann, J.) One-dimensional Schrödinger operators with local point interactions. **97c:47055**
Deift, Percy (*with* Kamvissis, Spyridon; Kriecherbauer, Thomas; Zhou, Xin) The Toda rarefaction problem. (English summary) **97e:34023**
Engländer, János (*with* Pinsky, Ross G.) The asymptotic behavior of the principal eigenvalue for small perturbations of critical one-dimensional Schrödinger operators with $V(x) = l_\pm/x^2$ for $\pm x \gg 1$. (English summary) **97c:34177**
Gesztesy, Fritz (*with* Simon, Barry) The xi function. **97e:47078**
Green, Edward L.[2] Bounds on perturbations of self-adjoint operators. (English summary) **97j:47023**
Huang, Min-Jei The first instability interval for Hill equations with symmetric single well potentials. (English summary) **97e:34050**
Il'in, Vladimir Aleksandrovich (*with* Antoniu, I.) On the equiconvergence, uniform on the whole line **R**, with the Fourier integral of the spectral expansion of an arbitrary function in the class $L_p(\mathbf{R})$ corresponding to a selfadjoint extension of Hill's operator. (Russian. Russian summary) **97k:34129**
— (*with* Kritskov, L. V.) An estimate that is uniform on the whole line for generalized eigenfunctions of the one-dimensional Schrödinger operator with a uniformly locally summable potential. (Russian. Russian summary) **97m:34167**
Jitomirskaya, S. *see* **del Rio, R.; et al.**, **97m:47002**
Jodayree Akbarfam, A. *see* **Nematy Hoseanabady, A.**, **97h:34123**
Kamvissis, Spyridon *see* **Deift, Percy; et al.**, **97e:34023**
Kargaev, P. P. (*with* Korotyaev, E. L.) Inverse problems for the Hill operator, the direct approach. (Russian) **97m:34030**
Kiselev, Alexander Absolutely continuous spectrum of one-dimensional Schrödinger operators and Jacobi matrices with slowly decreasing potentials. (English summary) **97e:81027**
Klaus, Martin *see* **Aktosun, Tuncay; et al.**, **97j:34111**
Korotyaev, E. L. *see* **Kargaev, P. P.**, **97m:34030**
Kriecherbauer, Thomas *see* **Deift, Percy; et al.**, **97e:34023**
Kritskov, L. V. *see* **Il'in, Vladimir Aleksandrovich**, **97m:34167**
Labovskiĭ, S. M. On the Sturm-Liouville problem for a linear singular functional-differential equation. (Russian) **97m:34120**
Last, Yoram *see* **del Rio, R.; et al.**, **97m:47002**
Leble, S. B. (*with* Zaitsev, Anatolij) The modified resolvent for the one-dimensional Schrödinger operator with a reflectionless potential and Green functions in multidimensions. (English summary) **97c:81038**
Ma, Zhong-Qi Comment on: "Levinson's theorem for the Dirac equation" [Phys. Rev. Lett. **70** (1993), no. 17, 2507–2510; MR 94a:81132] by N. Poliatzky. **97k:81151**
Mañas, Manuel Darboux transformations for the nonlinear Schrödinger equations. (English summary) **97j:35141**
Marchenko, V. A. Operator algebras, non-linear equations and Darboux-like transforms. **97g:35153**
van der Mee, Cornelis V. M. *see* **Aktosun, Tuncay; et al.**, **97j:34111**
Mikhailets, V. A. Spectral properties of the one-dimensional Schrödinger operator with point intersections. (English summary) **97d:81045**
Morehead, James J. Asymptotics of radial wave equations. (English summary) **97c:81045**
Mourre, E. *see* **Briet, Philippe**, **97h:34028**
Nematy Hoseanabady, A. (*with* Jodayree Akbarfam, A.) Asymptotics eigenvalues for Sturm-Liouville problems. (English summary) **97h:34123**
Ohmiya, Mayumi Miura transformation and S-matrix. (English summary) **97g:34109**
Pearson, D. B. *see* **Al-Naggar, I.**, **97m:81008**
Pinsky, Ross G. *see* **Engländer, János**, **97c:34177**
(Poliatzky, Nathan) *see* **Ma, Zhong-Qi**, **97k:81151**
Pravica, David W. Shape resonances: a comparison between parabolic and flat bottom potentials. (English summary) **97j:81055**
Rejto, Peter *see* **Behncke, Horst**, **97a:34227**
Remling, Christian Relationships between the m-function and subordinate solutions of second order differential operators. (English summary) **97m:34052**
del Rio, R. (*with* Jitomirskaya, S.; Last, Yoram; Simon, Barry) Operators with singular continuous spectrum. IV. Hausdorff dimensions, rank one perturbations, and localization. **97m:47002**

Román, José María (*with* Tarrach, Rolf) The regulated four-parameter one-dimensional point interaction. (English summary) **97k:81037**
Simon, Barry *see* **Gesztesy, Fritz, 97e:47078** *and* **del Rio, R.; et al., 97m:47002**
Spiridonov, V. P. (*with* Zhedanov, A. S.) Discrete Darboux transformations, the discrete-time Toda lattice, and the Askey-Wilson polynomials. (English summary) **97f:33030**
Stepin, S. A. On the spectral properties of the Orr-Sommerfeld problem with vanishing viscosity. (Russian) **97m:76044**
Stolz, Günter *see* **Buschmann, D.; et al., 97c:47055**
Tarrach, Rolf *see* **Román, José María, 97k:81037**
Treshchëv, D. V. On the reducibility of the one-dimensional Schrödinger equation with quasi-periodic potential. **97c:34087**
Weidmann, J. *see* **Buschmann, D.; et al., 97c:47055**
Weikard, Rudi When is Hill's equation algebro-geometric? (*see* **97m:00024**)
Zaitsev, Anatolij *see* **Lebie, S. B., 97c:81038**
Zhedanov, A. S. *see* **Spiridonov, V. P., 97f:33030**
Zhou, Xin *see* **Delft, Percy; et al., 97e:34023**

34L99 None of the above, but in this section

Il'in, Vladimir Aleksandrovich (*with* Kritskov, L. V.) An estimate that is uniform on the whole line for generalized eigenfunctions of the one-dimensional Schrödinger operator with a uniformly locally summable potential. (Russian. Russian summary) **97m:34167**
Jodayree Akbarfam, A. *see* **Nematy Hoseanabady, A., 97h:34123**
Kritskov, L. V. *see* **Il'in, Vladimir Aleksandrovich, 97m:34167**
Manafov, M. Dzh. Description of the domain of an ordinary differential operator with generalized potentials. (Russian. Russian summary) **97i:34121**
Nematy Hoseanabady, A. (*with* Jodayree Akbarfam, A.) Asymptotics eigenvalues for Sturm-Liouville problems. (English summary) **97h:34123**

Items with secondary classifications in 34L99

Athanassoulis, Gerassimos A. (*with* Papanicolaou, Vassilis G.) Eigenvalue asymptotics of layered media and their applications to the inverse problem. (English summary) **97m:34164**
Behnke, Henning A numerically rigorous proof of curve veering in an eigenvalue problem for differential equations. (English summary) **97a:49058**
Bohner, Martin An oscillation theorem for a Sturm-Liouville eigenvalue problem. (English summary) **97g:34047**
Clark, Stephen L. Asymptotic behavior of the Titchmarsh-Weyl coefficient for a coupled second order system. (*see* **97i:34003**)
Jovanović, Vladimir On some function spaces that appear in applied mathematics. (English summary) **97j:46028**
Jung, Il Hyo (*with* Kwon, Kil Hyun; Lee, Dong Won; Littlejohn, L. L.) Differential equations and Sobolev orthogonality. (English summary) **97a:33019**
Kwon, Kil Hyun *see* **Jung, Il Hyo; et al., 97a:33019**
Lee, Dong Won *see* **Jung, Il Hyo; et al., 97a:33019**
Li, Bai Ling Norms of the differential operators D^K. (Chinese. English and Chinese summaries) **97m:47064**
Littlejohn, L. L. *see* **Jung, Il Hyo; et al., 97a:33019**
Núñez, Carmen (*with* Obaya García, Rafael) On the Floquet coefficient for bidimensional linear systems with null Lyapunov exponent. (English summary) **97j:34030**
Obaya García, Rafael *see* **Núñez, Carmen, 97j:34030**
Papanicolaou, Vassilis G. *see* **Athanassoulis, Gerassimos A., 97m:34164**
de Snoo, Henk Regular Sturm-Liouville problems whose coefficients depend rationally on the eigenvalue parameter. (English summary) **97h:34029**

35–XX Partial differential equations

35–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 35–00

Lanczos, Cornelius ★ Linear differential operators. (English summary) **97e:00002**

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bartnik, Robert The wave equation. (English summary) **97b:35001**
DuChateau, Paul An introduction to inverse problems in partial differential equations for physicists, scientists and engineers. A tutorial. **97m:35001**
Guenther, Ronald B. (*with* Lee, John W.) ★ Partial differential equations of mathematical physics and integral equations. (English summary) **97e:35001**
Krylov, Nicolai ★ Lectures on elliptic and parabolic equations in Hölder spaces. (English summary) **97i:35001**
Kythe, Prem K. (*with* Puri, Pratap; Schäferkotter, Michael R.) ★ Partial differential equations and Mathematica. (English summary) **97m:35002**
Lee, John W. *see* **Guenther, Ronald B., 97e:35001**
Meister, Erhard ★ Partielle Differentialgleichungen. (German. German summary) [Partial differential equations] **97g:35001**
Puri, Pratap *see* **Kythe, Prem K.; et al., 97m:35002**
Remoissenet, M. ★ Waves called solitons. (English summary) **97d:35001**
Schäferkotter, Michael R. *see* **Kythe, Prem K.; et al., 97m:35002**
Tanabe, Hiroki ★ Functional analytic methods for partial differential equations. (English summary) **97i:35002**

Items with secondary classifications in 35–01

Bautista, Maurino *see* **Troutman, John L., 97a:00002**
González-Velasco, Enrique A. ★ Fourier analysis and boundary value problems. (English summary) **97f:00002**
Khavinson, Dmitry ★ Holomorphic partial differential equations and classical potential theory. **97i:35005**
Konotop, Vladimir V. (*with* Vàzquez, L. V.) ★ Nonlinear random waves. **97j:35168**
Kythe, Prem K. ★ Fundamental solutions for differential operators and applications. (English summary) **97f:00009**
Logan, J. David ★ Applied mathematics. (English summary) **97j:00014**
Troutman, John L. (*with* Bautista, Maurino) ★ Boundary value problems of applied mathematics. **97a:00002**
Vàzquez, L. V. *see* **Konotop, Vladimir V., 97j:35168**
Willem, Michel ★ Analyse harmonique réelle. (French. French summary) [Real harmonic analysis] **97a:42001**

35–02 Research exposition (monographs, survey articles)

Bainov, Drumi D. (*with* Minchev, Emil) Trends in the theory of impulsive partial differential equations. (English summary) **97h:35001**
de Jager, E. M. (*with* Jiang, Furu) ★ The theory of singular perturbations. **97h:35002**
Jiang, Furu *see* **de Jager, E. M., 97h:35002**
Málek, Josef (*with* Nečas, Jindřich; Rokyta, M.; Růžička, Michael) ★ Weak and measure-valued solutions to evolutionary PDEs. (English summary) **97g:35002**
Minchev, Emil *see* **Bainov, Drumi D., 97h:35001**
Nečas, Jindřich *see* **Málek, Josef; et al., 97g:35002**
Oberguggenberger, Michael Contributions of nonstandard analysis to partial differential equations. **97g:35003**
Rokyta, M. *see* **Málek, Josef; et al., 97g:35002**
Růžička, Michael *see* **Málek, Josef; et al., 97g:35002**

Items with secondary classifications in 35–02

Chemin, Jean-Yves Fluides parfaits incompressibles. (French summary) [Incompressible perfect fluids] **97d:76007**
Grindrod, Peter ★ The theory and applications of reaction-diffusion equations. (English summary) **97k:35125**
Heywood, John G. Remarks on the possible global regularity of solutions of the three-dimensional Navier-Stokes equations. (English summary) **97j:35125**
Iliev, Iliya Dimov (*with* Khristov, E. Kh.; Kirchev, K. P.) ★ Spectral methods in soliton equations. (English summary) **97e:35129**
Khristov, E. Kh. *see* **Iliev, Iliya Dimov; et al., 97e:35129**
Kirchev, K. P. *see* **Iliev, Iliya Dimov; et al., 97e:35129**
Schneider, Joachim ★ Attraktoreingrenzung für Evolutionsgleichungen der Hydrodynamik. (German. German summary) [Localization of attractors for evolution equations of hydrodynamics] **97e:35136**
Tanabe, Hiroki ★ Functional analytic methods for partial differential equations. (English summary) **97i:35002**
(Yanovskiĭ, A. B.) *see* **Iliev, Iliya Dimov; et al., 97e:35129**

35–03 Historical (must also be assigned at least one classification number from Section 01)

Qi, Min You Introduction. (*see* **97g:35004**)

Items with secondary classifications in 35–03

Archibald, Thomas From attraction theory to existence proofs: the evolution of potential-theoretic methods in the study of boundary-value problems, 1860–1890. (English and French summaries) **97d:01015**
Ding, Xia Xi Theory of conservation laws in China. (*see* **97k:00016**)
Heinz, Erhard Monge-Ampèresche Gleichungen und elliptische Systeme. [Monge-Ampère equations and elliptic systems] **97k:35063**
Magenes, Enrico On the scientific work of Olga Oleinik. (English and Italian summaries) **97i:01035**
Tutschke, Wolfgang Results and problems in the theory of generalized analytic functions and its influence on the present development of mathematical analysis. (English summary) (*see* **97d:00020**)

35–04 Explicit machine computation and programs (not the theory of computation or programming)

Baumann, Gerd *see* **Haager, Gernot; et al., 97d:35002**
Gao, Yi-Tian (*with* Tian, Bo) Generalized tanh method with symbolic computation and generalized shallow water wave equation. (English summary) **97k:35001**
— (*with* Tian, Bo) Using symbolic computation to exactly solve for the Bogoyavlenskii's generalized breaking soliton equation. (English summary)
Haager, Gernot (*with* Baumann, Gerd; Nonnenmacher, Theo F.) An algorithm to determine potential systems in Mathematica. (English summary) **97d:35002**
Nonnenmacher, Theo F. *see* **Haager, Gernot; et al., 97d:35002**
Tian, Bo *see* **Gao, Yi-Tian, 97k:35001**
Vorob'ev, E. M. Symmetry analysis of nonlinear PDE with a "Mathematica" program SYMMAN. (English summary) **97d:35003**

Items with secondary classifications in 35–04

Abell, Martha L. (*with* Braselton, James P.) Advancing the study of differential equations with technology. (English summary) (*see* **97i:68010**)
Allassia, F. (*with* Nucci, M. C.) Symmetries and heir equations for the laminar boundary layer model. (English summary) **97f:35007**
Braselton, James P. *see* **Abell, Martha L., (97i:68010)**
Gilbert, Robert P. (*with* Wood, David Harlan) Solving elliptic partial differential equations with MACSYMA. (English summary) **97g:35025**
Hereman, Willy (*with* Nuseir, Ameina) Symbolic methods to construct exact solutions of nonlinear partial differential equations. (English summary) **97m:35029**
Kythe, Prem K. (*with* Puri, Pratap; Schäferkotter, Michael R.) ★ Partial differential equations and Mathematica. (English summary) **97m:35002**
Nucci, M. C. *see* **Allassia, F., 97f:35007**
Nuseir, Ameina *see* **Hereman, Willy, 97m:35029**
Puri, Pratap *see* **Kythe, Prem K.; et al., 97m:35002**
Schäferkotter, Michael R. *see* **Kythe, Prem K.; et al., 97m:35002**
Wood, David Harlan *see* **Gilbert, Robert P., 97g:35025**

35–06 Proceedings, conferences, collections, etc.

(Alvino, Angelo) *see* **Progress in elliptic and parabolic partial differential equations, 97h:35003**
(Bandle, C.) *see* **Elliptic and parabolic problems, 97e:35002**
(Bemelmans, Josef) *see* **Elliptic and parabolic problems, 97e:35002**
(Benkirane, A.) *see* **Nonlinear partial differential equations, 97e:35003**
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Variational Methods for Discontinuous Structures ★ Variational methods for discontinuous structures. **97d:49002**
Contemporary Mathematics ★ Mathematical problems in the theory of water waves. **97c:76002**
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Differential equations, asymptotic analysis, and mathematical physics ★ Differential equations, asymptotic analysis, and mathematical physics. **97m:00024**
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Festschrift:
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Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **97d:00026**
Workshop on Nonlinear Kinetic Theories and Mathematical Aspects of Hyperbolic Systems ★ Proceedings of the Second International Workshop on Nonlinear Kinetic Theories and Mathematical Aspects of Hyperbolic Systems. **97c:00052**
Progress in partial differential equations: the Metz surveys ★ Progress in partial differential equations: the Metz surveys. 4. **97a:00033**
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Singularities and Differential Equations ★ Singularities and differential equations. **97k:00019**
Spectral and Scattering Theory and Related Topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral and scattering theory and related topics] **97d:00031**
Structure of Solutions of Differential Equations ★ Structure of solutions of differential equations. **97j:00022**
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35Axx General theory

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35A07 Local existence and uniqueness theorems [see also 35H05, 35Sxx]

Christ, Michael (*with* Karadzhov, G. E.; Müller, Detlef) Infinite-dimensional families of locally nonsolvable partial differential operators. (English summary) **97g:35006**
Cordaro, Paulo D. A survey on the problem of local solvability for systems of vector fields. (English summary) (*see* **97k:00025**)
Dehman, B. Local solvability for complex quasi-linear equations. (*see* **97e:35003**)
Gramchev, Todor (*with* Popivanov, Pet^{a}r R.) On the local Gevrey solvability for quasihomogeneous linear operators in $\mathbf{R}^2$. (English summary) (*see* **97m:00024**)
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— *see also* **Gramchev, Todor, (97m:00024)**
Qu, Chao Chun (*with* Xie, Cheng Kang) The Cauchy problem for a class of equations with multiple characteristics. (Chinese. English and Chinese summaries) **97m:35007**
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D'Ancona, Piero (*with* Manfrin, Renato) A class of locally solvable semilinear equations of weakly hyperbolic type. **97b:35122**
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Hayashi, Nakao Local existence in time of solutions to higher-order nonlinear dispersive equations. (English summary) **97i:35020**
Kakié, Kunio Uniqueness and pseudo-convexity in the Cauchy problem for an overdetermined system of partial differential equations. **97h:35170**
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— *see also* **D'Ancona, Piero, 97b:35122**
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35A08 Fundamental solutions

Akhiev, Seyidali S. A new fundamental solution concept and application to some local and non-local problems. (English summary) **97b:35004**
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Yajima, Kenji Smoothness and non-smoothness of the fundamental solution of time dependent Schrödinger equations. (English summary) **97j:35001**

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Aksenov, A. V. Symmetries and fundamental solutions of the multidimensional generalized axisymmetric Laplace equation. (Russian. Russian summary) **97m:35042**
Benachour, S. (*with* Roynette, Bernard; Vallois, Pierre) Solutions fondamentales de $u_t - \frac{1}{2}u_{xx} = \pm|u_x|$. (French summary) [Fundamental solutions of $u_t - \frac{1}{2}u_{xx} = \pm|u_x|$] **97m:35117**
Bondarenko, V. G. An estimate for the fundamental solution of a parabolic equation on a manifold of nonpositive curvature. (Russian. English summary) **97e:58212**
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Èĭdel'man, S. D. (*with* Porper, Frederic) Fundamental solutions of parabolic equations under large time. (English summary) (*see* **97m:00024**)
Gawinecki, J. (*with* Ortner, Norbert; Wagner, Peter^2) On the fundamental solution of the operator of dynamic linear thermodiffusion. (English summary) **97j:35148**
Il'yasov, Ya. Sh. On an equation that arises in the investigation of "fundamental solutions" of semilinear elliptic equations. (Russian) **97i:35039**
Kim, Sung-Ju Some remarks on a fundamental solution of the heat equation. **97m:35108**
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— *see also* **Gawinecki, J.; et al., 97j:35148**
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35A10 Cauchy-Kovalevskaya theorems

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Boman, Jan Uniqueness theorems of Holmgren type for generalized Radon transforms. (*see* **97k:35003**)
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Heersink, R. (*with* Tutschke, Wolfgang) Solution of initial value problems in associated spaces. (English summary) **97f:35003**
Tutschke, Wolfgang *see* **Heersink, R., 97f:35003**
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Gao, Fan The characteristic problem for inhomogeneous ultrahyperbolic equations. (Chinese. English and Chinese summaries) **97m:35183**
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Leszczyński, Henryk *see* **Augustynowicz, Antoni, 97b:35178** *and* **97i:35180**
Pongérard, P. (*with* Wagschal, Cl.) Problème de Cauchy dans des espaces de fonctions entières. (English and French summaries) [Cauchy problem in spaces of entire functions] **97m:35009**
Reissig, Michael Theorems of Cauchy-Kovalevsky and Holmgren type for abstract evolution equations in scales of locally convex spaces. (English summary) **97g:35175**
— New applications of the nonlinear abstract Cauchy-Kovalevsky theorem to fluid dynamics. (English summary) (*see* **97d:00020**)
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35A15 Variational methods

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Willem, Michel ★ Minimax theorems. **97h:58037**

35A20 Analytic methods, singularities

Ebenfelt, Peter Polynomial modules and a generalized Cauchy problem for systems of holomorphic partial differential operators. (English summary) **97c:35003**
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Hounie, Jorge (*with* Tavares, Joaquim) On removable singularities of locally solvable differential operators. (English summary) **97h:35006**
Kamimoto, Joe Turrittin ordinary differential equations, ∂_b operators and the breakdown of real analyticity of Szegő kernels. (Japanese) (*see* **97c:00055**)
Khavinson, Dmitry ★ Holomorphic partial differential equations and classical potential theory. **97i:35005**
Mandai, T. Asymptotic solutions for exceptional cases of characteristic Cauchy problems to Fuchsian partial differential equations. (*see* **97d:35004**)
Meise, Reinhold *see* **Franken, Uwe, 97h:35005**
Mikhaĭlov, A. B. The domain of analyticity of the solution of the Cauchy problem for a partial differential equation. (Russian. Russian summary) **97b:35006**
Okada, Yasunori (*with* Yamane, Hideshi) A characteristic Cauchy problem in the complex domain. (English and French summaries) **97k:35005**
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Ōuchi, Sunao Genuine solutions and formal solutions with Gevrey type estimates of nonlinear partial differential equations. (English summary) **97a:35002**
— Formal solutions, characteristic polygons and Gevrey valuations for nonlinear partial differential equations. (Japanese) (*see* **97c:00041**)
Pongérard, P. (*with* Wagschal, Cl.) Problème de Cauchy dans des espaces de fonctions entières. (English and French summaries) [Cauchy problem in spaces of entire functions] **97m:35009**
Puryushkis, G. Singularities of a solution on a boundary of smaller dimension. (Russian. Lithuanian summary) **97m:35010**
Schiltz, Dominique Un domaine d'holomorphie de la solution d'un problème de Cauchy homogène. (English and French summaries) [A domain of holomorphy of the solution of a homogeneous Cauchy problem] **97g:35008**
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Bertozzi, Andrea L. Symmetric singularity formation in lubrication-type equations for interface motion. (English summary) **97a:35092**
Chan, Chiu Yeung (*with* Chen, Ching Shyang) Method of fundamental solutions for multi-dimensional quenching problems. (English summary) **97m:35008**
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Chen, Hua[1] (*with* Rodino, Luigi) Micro-elliptic Gevrey regularity for nonlinear partial differential equations. (Italian summary) **97a:35019**
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Derridj, Makhlouf (*with* Tartakoff, David S.) Microlocal analyticity for the canonical solution $\overline{\partial}_b$ on some rigid weakly pseudoconvex hypersurfaces in $\mathbf{C}^2$. (English summary) **97e:35121**
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— (*with* Kossioris, Georgios T.) Singularities for viscosity solutions of Hamilton-Jacobi equations. **97e:35021**
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35A22 Transform methods (e.g. integral transforms)

Dix, Daniel B. Applications of Clifford analysis to inverse scattering for the linear hierarchy in several space dimensions. (English summary) **97a:35003**
Holschneider, Matthias Wavelet analysis of partial differential operators. (English summary) **97i:35006**

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— A method for solving the second mixed problem associated to the telegraph equation. (English and Romanian summaries)

Starkov, A. S. Transformation operators in a two-dimensional inverse problem for a finite domain. (Russian. English and Russian summaries) **97m:35280**
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35A25 Other special methods

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Oberst, Ulrich Finite-dimensional systems of partial differential or difference equations. **97j:35005**
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Davydov, Alexander A. (*with* Ortíz-Bobadilla, Laura) Smooth normal forms of folded elementary singular points. (English summary) **97a:58169**
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Dimitrovski, Dragan (*with* Rajović, Miloje; Stojiljković, Rade) On a generalization of I. N. Vekua's equation with analytic coefficients in $z, \overline{z}$. (Macedonian. English and Macedonian summaries) **97b:35084**
Goldin, Gerald A. (*with* Svetlichny, George) Nonlinear Schrödinger equations and the separation property. (English summary) **97d:35205**
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Li, Ping Li About the number of positive solutions of Neumann problems. **97a:35013**
Manakov, S. V. *see* **Degasperis, A.; et al., 97k:35009**
Nochetto, Ricardo H. (*with* Verdi, Claudio) Convergence of double obstacle problems to the generalized geometric motion of fronts. (English summary) **97e:35012**
Santini, Paolo Maria *see* **Degasperis, A.; et al., 97k:35009**
Verdi, Claudio *see* **Nochetto, Ricardo H., 97e:35012**

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Alinhac, S. Explosion des solutions d'une équation d'ondes quasi-linéaire en deux dimensions d'espace. [Blowup of the solutions of a quasilinear wave equation in two space dimensions] **97d:35139**
Britton, N. F. *see* **Gourley, S. A.; et al.**
Byrne, H. M. *see* **Gourley, S. A.; et al.**
Campbell, L. Lorne *see* **Mansourati, Z. G., 97e:60142**
Chaplain, M. A. J. *see* **Gourley, S. A.; et al.**
Colli, Pierluigi (*with* Grasselli, Maurizio) Convergence of parabolic to hyperbolic phase change models with memory. (English summary) **97i:35194**
Cox, Steven J. (*with* Overton, Michael L.) Perturbing the critically damped wave equation. (English summary) **97d:35120**
Dancer, Edward Norman Some remarks on classical problems and fine properties of Sobolev spaces. (English summary) **97e:35057**
Daners, Daniel Domain perturbation for linear and nonlinear parabolic equations. (English summary) **97h:35071**
Díaz Díaz, Gregorio (*with* Rey, J. M.) Regularity and extinction rate in a perturbed Hamilton-Jacobi equation. (Spanish) (*see* **97g:00019**)
Drábek, Pavel (*with* Huang, Yin Xi) Perturbed p-Laplacian in $\mathbf{R}^N$: bifurcation from the principal eigenvalue. (English summary) **97j:35032**
Escauriaza, Luis The L^p Dirichlet problem for small perturbations of the Laplacian. (English summary) **97f:35035**
van Gils, Stephan A. (*with* Soewono, Edy) Modulated waves in a perturbed Korteweg-de Vries equation. (English summary) **97c:35177**
Gorbachova, N. V. *see* **Martinenko, Mariya D., 97f:35143**
Gourley, S. A. (*with* Britton, N. F.; Chaplain, M. A. J.; Byrne, H. M.) Mechanisms for stabilisation and destabilisation of systems of reaction-diffusion equations. (English summary)
Grasselli, Maurizio *see* **Colli, Pierluigi, 97i:35194**
Huang, Yin Xi *see* **Drábek, Pavel, 97j:35032**
Hubert, Florence (*with* Serre, Denis) Dynamique lente-rapide pour des perturbations de systèmes de lois de conservation. (English and French summaries) [Slow-fast dynamics for parabolic perturbations of conservation laws] **97d:35134**
Kamynin, V. L. On convergence of the solutions of inverse problems for parabolic equations with weakly converging coefficients. **97i:35186**
Kenig, Carlos E. (*with* Pipher, Jill) The Neumann problem for elliptic equations with nonsmooth coefficients. II. **97j:35021**
Mansourati, Z. G. (*with* Campbell, L. Lorne) Non-classical diffusion equations related to birth-death processes with two boundaries. (English summary) **97e:60142**
Martinenko, Mariya D. (*with* Gorbachova, N. V.) Linearization for the second-order hyperbolic Z. Szmydt problem. (Ukrainian. English summary) **97f:35143**
Ogawa, Toshiyuki (*with* Suzuki, Hiromasa) On the spectra of pulses in a nearly integrable system. (English summary) **97m:35231**
Overton, Michael L. *see* **Cox, Steven J., 97d:35120**
Ozawa, Shin (*with* Roppongi, Susumu) Heat kernel and singular variation of domains. **97c:35076**
Padilla, Pablo The effect of the shape of the domain on the existence of solutions of an equation involving the critical Sobolev exponent. (English summary) **97a:35071**
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Roppongi, Susumu *see* **Ozawa, Shin, 97c:35076**
Rumbos, Adolfo J. A multiplicity result for strongly nonlinear perturbations of elliptic boundary value problems. **97c:35071**
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Suzuki, Hiromasa *see* **Ogawa, Toshiyuki, 97m:35231**
Tehrani, Hossein T. Infinitely many solutions for indefinite semilinear elliptic equations without symmetry. **97h:35065**
Wang, Yifu (*with* Yin, Jingxue) Propagation of perturbations of solutions for a doubly degenerate nonlinear parabolic equation. (English summary) **97d:35117**
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35B25 Singular perturbations

Benkiran, Taoufiq On a singular perturbation problem. (English summary) **97c:35010**
Butuzov, V. F. (*with* Karashchuk, A. F.) On a singularly perturbed system of first-order partial differential equations. (Russian. Russian summary) **97b:35017**
Costabel, Martin (*with* Dauge, Monique) A singularly perturbed mixed boundary value problem. (English summary) **97k:35010**
Dancer, Edward Norman Some singularly perturbed problems on annuli and a counterexample to a problem of Gidas, Ni and Nirenberg. (English summary) **97m:35016**
Dauge, Monique *see* **Costabel, Martin, 97k:35010**
Denisov, I. V. An estimate for the remainder term in the asymptotics of the solution of a boundary value problem. (Russian. Russian summary) **97h:35009**
Diener, Francine Asymptotics of a PDE's river. **97c:35012**
Diener, Marc A river of a PDE. **97c:35011**
Gadyl'shin, R. R. On the perturbation of the Laplacian spectrum when the boundary condition type changes on a small part of the boundary. (Russian. Russian summary) **97g:35011**
He, Cheng (*with* Zhang, Wei-Tao) Boundary layer estimation of a singular problem with limit equation of order 2. (English summary) **97i:35008**
Hubert, Florence (*with* Serre, Denis) Fast-slow dynamics for parabolic perturbations of conservation laws. (English summary) **97h:35010**
Ikeda, Hideo (*with* Nishiura, Yasumasa; Suzuki, Hiromasa) Stability of traveling waves and a relation between the Evans function and the SLEP equation. **97f:35014**
Karashchuk, A. F. *see* **Butuzov, V. F., 97b:35017**
Kasymov, D. K. Asymptotics of the solution of a boundary value problem for a linear hyperbolic equation with a small parameter. (Russian. English, Russian and Kazakh summaries) **97m:35017**
Koiso, Norihito On singular perturbation of a semilinear hyperbolic equation. (English summary) **97g:35012**
Kovalevskiĭ, A. A. G-compactness of sequences of nonlinear operators of Dirichlet problems with a variable domain. (Russian. Russian summary) **97b:35018**
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Soravia, Pierpaolo (*with* Souganidis, Panagiotis E.) Phase-field theory for FitzHugh-Nagumo-type systems. (English summary) **97e:35013**
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Starovoĭtov, V. N. On a uniform BV-estimate for solutions of some differential equations with a parameter. (Russian. English and Russian summaries)
Suzuki, Hiromasa *see* **Ikeda, Hideo; et al., 97f:35014**
Wei, Juncheng On the construction of single-peaked solutions to a singularly perturbed semilinear Dirichlet problem. **97f:35015**
Yao, Zhengan (*with* Zhou, Tieqiang) A proof for the time dependent form of div-curl lemma. (English and Chinese summaries)
Ye, Qin *see* **Zhang, Xiang[3], 97d:35013**
Zhang, Wei-Tao *see* **He, Cheng, 97i:35008**
Zhang, Xiang[3] (*with* Ye, Qin) Boundary value problems for singularly perturbed vector elliptic integrodifferential equations. (Chinese. Chinese summary) **97d:35013**
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Alikakos, Nicholas D. (*with* Bates, Peter W.; Chen, Xinfu) Convergence of the Cahn-Hilliard equation to the Hele-Shaw model. (English summary) **97b:35174**

Bates, Peter W. (*with* Fife, Paul C.; Gardner, Robert Alan; Jones, Christopher K. R. T.) The existence of travelling wave solutions of a generalized phase-field model. (English summary) **97m:35284**

— *see also* **Alikakos, Nicholas D.; et al., 97b:35174**

Bobrowski, Adam Generalized telegraph equation and the Sova-Kurtz version of the Trotter-Kato theorem. (English summary) **97i:34083**

Bronsard, Lia (*with* Stoth, Barbara E. E.) On the existence of high multiplicity interfaces. (English summary) **97d:35199**

Carmona, Sara C. Wave front propagation for a Cauchy problem with a fast component. (English summary) **97a:35093**

Chang, Mou-Hsiung Some new results in stochastic reaction-diffusion equations. (English summary) (*see* **97a:00029**)

Chen, Xinfu *see* **Alikakos, Nicholas D.; et al., 97b:35174**

Cheverry, C. Justification de l'optique géométrique non linéaire pour un système de lois de conservation. [Justification of nonlinear geometric optics for a system of conservation laws] **97f:35125**

Cole, Julian D. *see* **Kevorkian, J., 97k:34001**

Danilov, V. G. (*with* Omel'yanov, G. A.; Radkevich, E. V.) Justification of the asymptotic behavior of the solution of a phase field system, and a modified Stefan problem. (Russian. Russian summary) **97f:35236**

Dell'Isola, Francesco (*with* Rosa, Luigi) Perturbation methods in torsion of thin hollow Saint-Venant cylinders. **97c:73016**

Demidov, A. S. Complete asymptotics of the solution of the Dirichlet problem for the two-dimensional Laplace equation with rapidly oscillating boundary data. (Russian) **97e:35020**

Elliott, Charles M. (*with* Schätzle, Reiner) The limit of the anisotropic double-obstacle Allen-Cahn equation. (English summary) **97i:35069**

Felmer, Patricio L. *see* **del Pino, Manuel A., 97c:35057**

Fife, Paul C. *see* **Bates, Peter W.; et al., 97m:35284**

Fitzgibbon, W. E. (*with* Parrott, M. E.; You, Yun Cheng) Finite dimensionality and upper semicontinuity of the global attractor of singularly perturbed Hodgkin-Huxley systems. (English summary) **97f:35214**

— (*with* Parrott, M. E.) Convergence of singular perturbations of strongly damped nonlinear wave equations. **97j:35095**

Fusco, Giorgio (*with* Hale, Jack K.; Xun, Jianping) Traveling waves as limits of solutions on bounded domains. (English summary) **97g:35068**

Garbey, Marc A Schwarz alternating procedure for singular perturbation problems. (English summary) **97i:65179**

Gardner, Robert Alan *see* **Bates, Peter W.; et al., 97m:35284**

Geymonat, Giuseppe (*with* Krasucki, Françoise) A limit model of a soft thin joint. **97e:80005**

Glebov, S. G. On a weakly nonlinear problem with local resonances. (Russian. Russian summary) **97h:35211**

Grenier, Emmanuel Couches limites de systèmes paraboliques nonlinéaires caractéristiques. (English and French summaries) [Boundary layers of nonlinear characteristic parabolic systems] **97m:35143**

Guès, Olivier Perturbations visqueuses de problèmes mixtes hyperboliques et couches limites. (English and French summaries) [Viscous perturbations of mixed hyperbolic and boundary layer problems] **97i:35103**

Hale, Jack K. *see* **Fusco, Giorgio; et al., 97g:35068**

Han, Zheng-chao (*with* Li, Yan Yan) Degenerate elliptic systems and applications to Ginzburg-Landau type equations. I. (English summary) **97d:35085a**

— (*with* Li, Yan Yan) Erratum: "Degenerate elliptic systems and applications to Ginzburg-Landau type equations. I". **97d:35085b**

Hemker, P. W. A singularly perturbed model problem for numerical computation. (English summary) **97k:65286**

Hubert, Florence Viscous perturbations of isotropic solutions of the Keyfitz-Kranzer system. (English summary)

Ikeda, Hideo Singular pulse wave bifurcations from front and back waves in bistable reaction-diffusion systems. (English summary) **97j:35068**

de Jager, E. M. (*with* Jiang, Furu) ★ The theory of singular perturbations. **97h:35002**

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Jones, Christopher K. R. T. Geometric singular perturbation theory. **97e:34105**

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Kevorkian, J. (*with* Cole, Julian D.) ★ Multiple scale and singular perturbation methods. (English summary) **97k:34001**

Khas'minskiĭ, R. Z. (*with* Yin, Gang George) Asymptotic series for singularly perturbed Kolmogorov-Fokker-Planck equations. (English summary) **97j:60141**

Ko, Bong Soo The existence of nonconstant solutions of a class of semilinear elliptic Neumann problems with a small parameter. **97m:35083**

Komashins'ka, Ĭ. V. Construction of asymptotic approximations of the solution of the quasiwave differential equation with nonlinear boundary conditions of nonautonomous type. (Ukrainian. English summary)

Krasucki, Françoise *see* **Geymonat, Giuseppe, 97e:80005**

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Lin, Zong Chi Multiple boundary layer properties of solutions to a fourth-order elliptic partial differential equation. (Chinese. English and Chinese summaries) **97i:35031**

Lukovskiĭ, I. A. (*with* Timokha, A. N.) On a variant of the linearized theory of nonstationary boundary value problems with a free boundary. (Russian. English and Ukrainian summaries) **97m:35289**

Matsuyama, Tokio Singular limit of some quasilinear wave equations with damping terms. (English summary) **97c:35136**

— Singular limit of some quasilinear wave equations with damping and restoring terms. (English summary) **97d:35146**

Milani, Albert Global existence via singular perturbations for quasilinear evolution equations. (English summary) **97k:35175**

— Erratum: "Long time existence and singular perturbation results for quasilinear hyperbolic equations with small parameter and dissipation term. III" [Nonlinear Anal. 16 (1991), no. 1, 1–11; MR 91m:35050]. **97e:35017**

Mo, Jia Qi A singularly perturbed initial-boundary value problem for a nonlocal reaction-diffusion equation. (Chinese. English and Chinese summaries) **97i:35088**

Molina-Meyer, Marcela Global attractivity and singular perturbation for a class of nonlinear cooperative systems. (English summary) **97k:35126**

Murdock, James Some foundational issues in multiple scale theory. (English summary) **97e:34102**

Musso, Monica (*with* Passaseo, Donato) Sign changing solutions of nonlinear elliptic equations. (English summary) **97h:35063**

Najman, Branko Resolvent estimates for singularly perturbed elliptic operators in Hölder spaces. (English summary) **97m:35053**

Nazarov, Sergei A. Junctions of singularly degenerating domains with different limit dimensions. I. (English summary) **97k:35038**

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del Pino, Manuel A. (*with* Felmer, Patricio L.) Local mountain passes for semilinear elliptic problems in unbounded domains. **97c:35057**

Povzner, A. Ya. A method for finding asymptotic solutions of certain partial differential equations containing a small parameter. (English summary) **97m:35032**

Radkevich, E. V. *see* **Danilov, V. G.; et al., 97f:35236**

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Shih, Shagi-Di A uniform solution of a parabolic problem with angular layer behavior. (English summary) **97b:35088**

Shishkin, Grigorii I. Grid approximation of parabolic equations with singular initial conditions. (Russian. Russian summary) **97j:65145**

Sokil, B. I. On the construction of asymptotic approximations for a nonautonomous wave equation. (Russian. English and Ukrainian summaries) **97a:35023**

Stoth, Barbara E. E. *see* **Bronsard, Lia, 97d:35199**

Taniguchi, Masaharu A remark on singular perturbation methods via the Lyapunov-Schmidt reduction. (English summary) **97d:35107**

— (*with* Nishiura, Yasumasa) Stability and characteristic wavelength of planar interfaces in the large diffusion limit of the inhibitor. (English summary) **97g:35077**

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Uchiyama, Kōichi L^2-theory of singular perturbation of hyperbolic equations. III. Asymptotic expansions of dispersive type. (English summary) **97k:35152**

Witt, Ingo Existence and continuity of the attractor for a singularly perturbed hyperbolic equation. (English summary) **97m:35182**

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35B27 Homogenization; partial differential equations in media with periodic structure [see also 73B27, 76D30]

Allaire, Grégoire (*with* Briane, M.) Multiscale convergence and reiterated homogenisation. (English summary) **97d:35014**

Bakhvalov, N. S. (*with* Saint Jean Paulin, Jeannine) Homogenization for thermoconductivity in a porous medium with periods of different orders in the different directions. (English summary) **97m:35019**

Banks, H. T. (*with* Cioranescu, Doina; Miller, Robert E.) Asymptotic study of lattice structures with damping. (English summary) **97e:35014**

Bellieud, Michel (*with* Bouchitté, Guy) Homogénéisation de problèmes elliptiques en présence de fibres de grande conductivité. (English and French summaries) [Homogenization of elliptic problems in a fiber-reinforced body with high conductivity] **97i:35009**

Belyaev, A. Yu. (*with* Éfendiev, Ya. R.) Averaging of a system of Stokes equations with a random potential. (Russian. Russian summary) **97k:35011**

Biroli, Marco (*with* Mosco, Umberto; Tchou, Nicoletta A.) Homogenization for degenerate operators with periodical coefficients with respect to the Heisenberg group. (English and French summaries) **97e:35015**

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Cioranescu, Doina (*with* Donato, Patrizia; Ene, Horia I.) Homogenization of the Stokes problem with non-homogeneous slip boundary conditions. (English summary) **97g:35013**

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Dal Maso, Gianni (*with* Murat, François) Dirichlet problems in perforated domains for homogeneous monotone operators on H_0^1. (English summary) (*see* **97g:49001**)

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Dufour, Romuald (*with* Fabre, Sylvie; Mossino, Jacqueline) H-convergence de matrices décomposables. (English and French summaries) [H-convergence of factorizable matrices] **97k:35012**

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Garnier, Josselin Homogenization in a periodic and time-dependent potential. (English summary) **97j:35009**

Heron, Bernard (*with* Mossino, Jacqueline) H-convergence and regular limits for stratified media with low and high conductivities. (English summary) **97f:35016**

Il'in, A. A. Averaging of dissipative dynamical systems with rapidly oscillating right-hand sides. (Russian. Russian summary) **97h:35011**

Iosif'yan, G. A. On the averaging of some boundary value problems with nonlinear boundary conditions in punctured domains. (Russian)

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Jian, Huai Yu Homogenization problems of parabolic minima. (English summary) **97h:35012**
— Homogenization of a class of quasilinear parabolic equations. (Chinese. English and Chinese summaries) **97m:35020**
Kaizu, Satoshi Homogenization of eigenvalue problems for the Laplace operator with nonlinear terms in domains in many tiny holes. **97k:35013**
Kozlov, Sergei Mikhallovich (*with* Pyatnitskiĭ, A. L.) Degeneration of effective diffusion in the presence of periodic potential. (English and French summaries) **97h:35013**
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Mortola, Stefano Homogenization of first order differential operators. (English summary) (*see* **97g:49001**)
— (*with* Peirone, Roberto) Homogenization of quadratic forms on fractals. (English summary) **97g:35014**
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Murat, François *see* **Dal Maso, Gianni, (97g:49001)**
Nazarov, Sergeĭ A. A general scheme for averaging selfadjoint elliptic systems in multidimensional domains, including thin domains. (Russian. Russian summary) **97c:35013**
Oleĭnik, Ol'ga Arsen'evna (*with* Iosif'yan, G. A.; Temam, Roger) Some nonlinear homogenization problems. (English summary) **97d:35015**
— (*with* Shaposhnikova, T. A.) On an averaging problem in a partially punctured domain with a boundary condition of mixed type on the boundary of the holes, containing a small parameter. (Russian. Russian summary) **97m:35021**
— (*with* Shaposhnikova, T. A.) Averaging of solutions of the Dirichlet problem in a partially punctured domain of general form with nonperiodic structure. (Russian. Russian summary) **97i:35010**
Pankratov, L. S. Averaging of quasilinear parabolic equations in weakly connected domains. (Russian. English summary) **97a:35014**
Pastukhova, S. E. On the error of averaging for the Steklov problem in a punctured domain. (Russian. Russian summary) **97d:35016**
Peirone, Roberto *see* **Mortola, Stefano, 97g:35014**
Poliševski, D. (*with* Saint Jean Paulin, Jeannine) Homogenization of Stokes-Boussinesq flows in a quasiperiodic domain. (English summary) **97g:35015**
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Sandrakov, G. V. Averaging of an unsteady Stokes flow in a periodic porous medium. (Russian) **97e:35014**
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Skrypnik, I. V. Averaging of nonlinear Dirichlet problems in punctured domains of general structure. (Russian. Russian summary) **97h:35014**
— New conditions for the averaging of nonlinear Dirichlet problems in punctured domains. (Russian. English and Ukrainian summaries) **97h:35015**
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Temam, Roger *see* **Oleĭnik, Ol'ga Arsen'evna; et al., 97d:35015**
Vucans, J. Effective coefficients of thermoconductivity on some symmetric periodically perforated plane structures. (English summary) **97a:35015**
Zhang, Xing You Two-scale convergence and homogenization of some quasilinear parabolic equations. (Chinese. English and Chinese summaries) **97m:35022**
— Two-scale convergence and homogenization for a class of quasilinear elliptic equations. (English summary) **97i:35011**
Zhikov, V. V. Connectedness and averaging. Examples of fractal conductivity. (Russian. Russian summary) **97h:35016**

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Abddaimi, Y. (*with* Michaille, G.) Dirichlet problem associated with a random quasilinear operator in a random domain. (English and French summaries) **97e:35207**
Akishin, Pavel G. (*with* Vinitskiĭ, S. I.) ★ On Helmholtz problem for plane periodical structures. (English and Russian summaries) **97b:35029**
Amirat, Youcef (*with* Hamdache, K.; Ziani, A.) On homogenization of ordinary differential equations and linear transport equations. (English summary) (*see* **97g:49001**)
Antonić, Nenad H-measures applied to symmetric systems. (English summary) **97j:35006**
Batty, Charles J. K. (*with* Bratteli, Ola; Jørgensen, Palle E. T.; Robinson, Derek W.) Asymptotics of periodic subelliptic operators. (English summary) **97f:35028**
Bourgeat, Alain (*with* Hidani, Abdelkader) Effective model of two-phase flow in a porous medium made of different rock types. (English summary) **97h:76111**
— (*with* Mikelić, Andro) Homogenization of a polymer flow through a porous medium. **97k:76099**
Bratteli, Ola *see* **Batty, Charles J. K.; et al., 97f:35028**
Brillard, Alain Asymptotic behaviour of a viscoplastic Bingham fluid in porous media with periodic structure. (English and French summaries) **97j:76056**
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Casado-Díaz, Juan (*with* Gayte, Inmaculada) A general compactness result and its application to the two-scale convergence of almost periodic functions. (English and French summaries) **97d:46095**
Challal, S. (*with* Saint Jean Paulin, Jeannine) Study of the limit behavior of a viscoelastic medium with very small obstacles. (English summary) **97d:76039**
De Arcangelis, Riccardo (*with* Gaudiello, Antonio; Paderni, Gabriella) Some cases of homogenization of linearly coercive gradient constrained variational problems. (English summary) **97j:49021**
El Otmani, S. (*with* Saint Jean Paulin, Jeannine) Homogenization for hydraulic drainage systems with periodically distributed three-dimensional cavities. (English summary) **97b:73004**
Embid, Pedro F. (*with* Majda, Andrew J.) Averaging over fast gravity waves for geophysical flows with arbitrary potential vorticity. (English summary) **97d:86003**
Ene, Ioana-Andreea (*with* Saint Jean Paulin, Jeannine) Homogenization and two-scale convergence for a Stokes or Navier-Stokes flow in an elastic thin porous medium. (English summary) **97m:35201**
Figotin, A. L. (*with* Kuchment, Peter) Band-gap structure of spectra of periodic dielectric and acoustic media. I. Scalar model. (English summary) **97g:35122**
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35B30 Dependence of solutions of PDE on initial and boundary data, parameters [see also 58F14]

Cardoso, Fernando (*with* Mendoza, Ramón) On the hyperbolic Dirichlet to Neumann functional. **97g:35016**
Crabb, Rebecca (*with* Losson, Jérôme; Mackey, Michael C.) Dependence on initial conditions in nonlocal PDE's and hereditary dynamical systems. (English summary) (*see* **97a:00029**)
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Hamada, Yûsaku (*with* Takeuchi, Akira) Sur un domaine d'existence et un prolongement analytique des solutions de problèmes de Goursat. (English and French summaries) [Domain of existence and analytic continuation of the solutions of Goursat problems] **97g:35017**
Losson, Jérôme *see* **Crabb, Rebecca; et al., (97a:00029)**
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Payne, L. E. (*with* Song, Jong Chul) Continuous dependence on the initial-time geometry in generalized heat conduction. (English summary) **97m:35023**
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Arrieta, Jose M. Elliptic equations, principal eigenvalue and dependence on the domain. (English summary) **97h:35037**

Attia Hussein, Hassan (*with* El-Fiky, A.) On the order of exponential growth of the solutions of certain linear partial differential equations. **97c:35027**
Bao, Gang[1] (*with* Symes, William W.) On the sensitivity of solutions of hyperbolic equations to the coefficients. (English summary) **97b:35119**
Bona, Jerry L. (*with* Zhang, Bing-Yu) The initial-value problem for the forced Korteweg-de Vries equation. (English summary) **97j:35133**
Bucur, Dorin (*with* Zolésio, Jean-Paul) N-dimensional shape optimization under capacitary constraint. (English summary) **97g:49054**
Cannon, John R. (*with* Pérez Esteva, Salvador) On the continuous dependence of the solution of a linear parabolic partial differential equation on the boundary data and the solution at an interior spatial point. (English summary) **97a:35079**
Dziri, Raja (*with* Zolésio, Jean-Paul) Shape derivative for the heat-conduction equation with Lipschitz continuous coefficients. (Italian summary) **97k:35048**
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Hoff, David Continuous dependence on initial data for discontinuous solutions of the Navier-Stokes equations for one-dimensional, compressible flow. (English summary) **97d:35171**
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Kelingos, John (*with* Massopust, Peter R.) A characterization of solutions to a radially perturbed Laplace equation in the unit n-ball. **97e:35032**
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Xin, Jack X. (*with* Moloney, Jerome V.) Global weak solutions and attractors of the three-dimensional Maxwell-Bloch two level laser systems. (English summary) **97k:35250**
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35B32 Bifurcation [see also 58F14]

Ashwin, Peter (*with* Mei, Zhen) Normal form for Hopf bifurcation of partial differential equations on the square. (English summary) **97e:35016**
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Mei, Zhen (*with* Theil, F.) Variation of bifurcations along a homotopy from Neumann to Dirichlet problems. **97h:35017**
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Smiley, M. W. A finite element method for computing the bifurcation function for semilinear elliptic BVPs. (English summary) **97c:35015**
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— (*with* Garcia Azorero, Jesus; Peral Alonso, Ireneo) Quasilinear equations with a multiple bifurcation. (English summary) **97i:35036**
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— (*with* Villegas, Salvador) Dirichlet problems with asymmetric nonlinearities. (English summary) **97m:35075**
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Berestycki, Henri (*with* Esteban, Maria J.) Existence and bifurcation of solutions for an elliptic degenerate problem. (English and French summaries) **97k:34052**
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Cantrell, Robert Stephen Antibifurcation and the n-species Lotka-Volterra competition model with diffusion. (English summary) **97c:35196**
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— Domain variation for certain sets of solutions and applications. (English summary) **97m:35079**
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— (*with* Li, Yi[2]) Existence and bifurcation of the positive solutions for a semilinear equation with critical exponent. (English summary) **97f:35047**
— (*with* Li, Yi[2]) Existence of multiple positive solutions for a semilinear elliptic equation. (English summary) **97k:35062**
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Fleckinger, Jacqueline (*with* Manásevich, Raúl F.; de Thélin, François) Global bifurcation from the first eigenvalue for a system of p-Laplacians. (English summary) **97j:35046**
Fraile Peláez, José María (*with* Koch Medina, Pablo; López-Gómez, Julián; Merino, Sandro) Elliptic eigenvalue problems and unbounded continua of positive solutions of a semilinear elliptic equation. (English summary) **97b:35036**
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Price, C. B. Traveling Turing patterns in nonlinear neural fields. (English summary)
Qu, Chang Zheng (*with* Yu, Qingyu; Geng, Di) Positive solutions and bifurcation of fully nonlinear elliptic equations involving super-critical Sobolev exponents. (English summary) **97d:35080**
Rother, Wolfgang[1] Existence and bifurcation results for some semilinear elliptic equations on $\mathbf{R}^N$. (*see* **97a:00029**)
Rynne, Bryan P. Genericity of hyperbolicity and saddle-node bifurcations in reaction-diffusion equations depending on a parameter. (English and German summaries) **97h:35105**
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35B35 Stability, boundedness

Brauner, Claude-Michel (*with* Gerbi, S.; Schmidt-Lainé, Claudine) A stability analysis for a fully nonlinear parabolic problem in detonation theory. (English summary) **97a:35016**
Bridges, Thomas J. (*with* Mielke, Alexander) Instability of spatially-periodic states for a family of semilinear PDE's on an infinite strip. (English summary) **97k:35015**
Gerbi, S. *see* **Brauner, Claude-Michel; et al.**, **97a:35016**
Glebskiĭ, L. Yu. (*with* Lerman, L. M.) Instability of small stationary localized solutions to a class of reversible $1+1$ PDEs. (English summary) **97m:35024**
Lavrenyuk, S. P. (*with* Onishkevich, G. M.) Lyapunov stability of the zero solution of a nonlinear parabolic equation. (Ukrainian. English summary) **97m:35025**
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Alikakos, Nicholas D. (*with* Fusco, Giorgio; Stefanopoulos, Vagelis) Critical spectrum and stability of interfaces for a class of reaction-diffusion equations. **97d:35100**
Angenent, Sigurd B. (*with* Fila, Marek) Interior gradient blow-up in a semilinear parabolic equation. (English summary) **97c:35088**
Bainov, Drumi D. (*with* Kamont, Zdzisław; Minchev, Emil) On the stability of solutions of impulsive partial differential equations of first order. (English summary) **97f:35220**
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Bessaih, Hakima On the stability of the solutions to the compressible Navier-Stokes equation when the Mach number goes to zero. (English summary) **97f:35160**
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Kochneff, E. Homogeneous solutions of the generalized heat equation. (English summary) **97k:35098**
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Matthys, Lieven (*with* Lambert, Hendrik; De Mey, Gilbert) A recursive construction of particular solutions to a system of coupled linear partial differential equations with polynomial source term. (English summary) **97c:35008**
Miller, Willard, Jr. *see* **Kalnins, E. G.; et al., 97k:81035**
Naik, Naren (*with* Selvarajan, A.; Vasu, R. M.) A new perturbation solution to the scalar wave equation. (English summary) **97c:35034**
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Pogosyan, G. S. *see* **Kalnins, E. G.; et al., 97k:81035**
Rajović, Miloje Iteration method for the equations of I. N. Vecua type of higher order with analytical coefficients. (English summary) **97c:35004**
Read, W. W. Analytical solutions for a Helmholtz equation with Dirichlet boundary conditions and arbitrary boundaries. (English summary) **97c:35035**
Renelt, Heinrich Reihenentwicklungen für Lösungen Cauchy-Riemannscher Differentialgleichungssysteme. [Series expansions for solutions of Cauchy-Riemann systems of differential equations] **97i:30063**
Reznick, Bruce Homogeneous polynomial solutions to constant coefficient PDE's. **97a:12006**
Selvarajan, A. *see* **Naik, Naren; et al., 97c:35034**
Shchegolev, S. A. Construction of a solution of a quasilinear partial differential equation of parabolic type with oscillating and slowly varying coefficients. (Russian. English and Ukrainian summaries) **97g:35090**
Taşeli, H. (*with* Demiralp, Metin) A new approach to the classical Stokes flow problem. I. Methodology and first-order analytical results. (English summary) **97m:76040a**
— (*with* Eid, R.) A new approach to the classical Stokes flow problem. II. Series solutions and higher-order applications. (English summary) **97m:76040b**
Tian, Bo *see* **Gao, Yi-Tian, 97k:35001**
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Vasu, R. M. *see* **Naik, Naren; et al., 97c:35034**
Zhang, Bing-Yu Analyticity of solutions of the generalized Kortweg-de Vries equation with respect to their initial values. (English summary) **97a:35210**

35C15 Integral representations of solutions of PDE

Costabel, Martin (*with* Dauge, Monique) On representation formulas and radiation conditions. (English summary) **97m:35031**
Dauge, Monique *see* **Costabel, Martin, 97m:35031**
El-Sheikh, M. G. On the mixed initial Dirichlet-Neumann problem for the wave equation in the circle. (English summary) **97g:35019**
Kravchenko, V. V. (*with* Ramírez de Arellano, Enrique; Shapiro, M. V.) On integral representations and boundary properties of spinor fields. (English summary) **97g:35020**
Ramírez de Arellano, Enrique *see* **Kravchenko, V. V.; et al., 97g:35020**
Shapiro, M. V. *see* **Kravchenko, V. V.; et al., 97g:35020**
Vagabov, A. I. The generalized Fourier method for solving mixed problems for nonlinear equations. (Russian. Russian summary) **97k:35022**

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Alikulov, R. K. (*with* Tenchurin, R. Kh.) Integral representation of the Green function of degenerate parabolic equations. (Russian. Tajiki summary) **97a:35125**
Begehr, Heinrich G. W. Elliptic second order equations. **97i:35027**
Chen, Ten Ging (*with* Lin, Jin Long) Integral representation of solution for $\overline{\partial} u = f$ and its uniform estimate on ellipsoids. (English summary) **97d:32003**
Cialdea, Alberto (*with* Hsiao, George C.) Regularization for some boundary integral equations of the first kind in mechanics. (English and Italian summaries) **97d:35031**
Coulhon, Thierry (*with* Grigor'yan, Alexander) Heat kernels, volume growth and anti-isoperimetric inequalities. (English and French summaries) **97f:58125**
Ergashev, T. G. *see* **Salakhitdinov, M. S., 97h:35133**
Esrafilian, Ebrahim Identification of unknown radiation terms in the diffusion problem. (Russian. Tajiki summary) **97c:35209**
Gao, Wenjie Boundary value problems for parabolic equations on Lipschitz cylinders with L^{pq} boundary data. (English and Chinese summaries) **97f:35086**
Grigor'yan, Alexander *see* **Coulhon, Thierry, 97f:58125**
Heerssink, R. (*with* Tutschke, Wolfgang) Solution of initial value problems in associated spaces. (English summary) **97f:35003**
Heyman, Ehud Time-dependent plane-wave spectrum representations for radiation from volume source distributions. (English summary) **97a:78022**
Hsiao, George C. (*with* Saranen, Jukka) Boundary integral solution of a nonlinear heat conduction problem. (English summary) (*see* **97a:00029**)
— *see also* **Cialdea, Alberto, 97d:35031**
Jawerth, Björn (*with* Mitrea, Marius) Acoustic scattering, Galerkin estimates and Clifford algebras. **97k:35037**
Korbut, L. I. (*with* Matîichuk, M. I.) Representations of solutions of nonlocal boundary-value problems for parabolic equations. (English summary) **97m:35109**
Kravchenko, V. V. (*with* Malonek, Helmuth R.; Santana, Gustavo) Biquaternionic integral representations for massive Dirac spinors in a magnetic field and generalized biquaternionic differentiability. (English summary) **97k:35215**
Krutitskii, Pavel A. An explicit solution of the pseudo-hyperbolic initial-boundary value problem in a multiply connected region. (English summary) **97d:76010a**
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Lin, Jin Long *see* **Chen, Ten Ging, 97d:32003**
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Mitrea, Marius *see* **Jawerth, Björn, 97k:35037**
Ortner, Norbert (*with* Wagner, Peter[2]) Feynman integral formulae and fundamental solutions of decomposable evolution operators. (English summary) **97a:35027**

Roitberg, I. Yu. On approximation of solutions of elliptic boundary value problems for Petrovskiĭ elliptic systems by linear combinations of fundamental solutions. **97a:35011**
Salakhitdinov, M. S. (*with* Ergashev, T. G.) An integral representation of the generalized solution of the Cauchy problem in the class R^{λ}_{2k} for a hyperbolic-type equation of the second kind. (Russian. English and Uzbek summaries) **97h:35133**
Santana, Gustavo *see* **Kravchenko, V. V.; et al., 97k:35215**
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Tenchurin, R. Kh. *see* **Alikulov, R. K., 97a:35125**
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Unterreiter, Andreas Volterra integral equation models for semiconductor devices. (English summary) **97b:35177**
Wagner, Peter[2] *see* **Ortner, Norbert, 97a:35027**
Xu, Zhen Yuan[1] (*with* Zhou, Chiping) On Riemann-Hilbert problems for nonhomogeneous Dirac equations in a half space of $\mathbf{R}^m$ ($m \geq 2$). (English summary) **97d:35167**
Xu, Zhong Yi (*with* Lin, Liang Yu) The Hilbert boundary value problem on the topological product of cylindrical and half-plane domains. (Chinese. English and Chinese summaries) **97k:32005**
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35C20 Asymptotic expansions

Argatov, I. I. (*with* Nazarov, Sergei A.) Asymptotic analysis of problems on junctions of domains of different limit dimensions. A body pierced by a thin rod. (Russian. Russian summary) **97f:35021**
Demidov, A. S. Complete asymptotics of the solution of the Dirichlet problem for the two-dimensional Laplace equation with rapidly oscillating boundary data. (Russian) **97c:35020**
Joly, Jean-Luc (*with* Métivier, Guy; Rauch, Jeffrey B.) Several recent results in nonlinear geometric optics. **97e:35020**
Keller, Joseph B. (*with* Lewis, Robert M.) Asymptotic methods for partial differential equations: the reduced wave equation and Maxwell's equations. (English summary) **97d:35020**
Komashins'ka, Ĭ. V. Construction of asymptotic approximations of the solution of the quasiwave differential equation with nonlinear boundary conditions of nonautonomous type. (Ukrainian. English summary)
Lapshin, A. E. (*with* Panasenko, G. P.) Asymptotic solution of the Dirichlet problem for the Poisson equation defined on a periodic rectangular lattice. (Russian. Russian summary) **97c:35021**
Lewis, Robert M. *see* **Keller, Joseph B., 97d:35020**
Lin, Xiao-Biao Shadowing matching errors for wave-front-like solutions. (English summary) **97f:35022**
Lin, Zong Chi An asymptotic expression for the solutions to the mixed boundary value problem for a class of fourth order elliptic equations with singular limiting equations. (Chinese. Chinese summary) **97f:35023**
Métivier, Guy *see* **Joly, Jean-Luc; et al., 97e:35020**
Mul'kibaev, A. O. On the construction of the asymptotics in the case of discontinuous conditions for the equation $\varepsilon^2 \Delta u - k^2(x, y)u = f(x, y)$. (Russian. English and Russian summaries)
Nazarov, Sergei A. *see* **Argatov, I. I., 97f:35021**
Panasenko, G. P. *see* **Lapshin, A. E., 97c:35021**
Povzner, A. Ya. A method for finding asymptotic solutions of certain partial differential equations containing a small parameter. (English summary) **97m:35032**
Rauch, Jeffrey B. *see* **Joly, Jean-Luc; et al., 97e:35020**
Sokil, B. I. On the construction of asymptotic approximations for a nonautonomous wave equation. (Russian. English and Ukrainian summaries) **97a:35023**

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Alikakos, Nicholas D. (*with* Bates, Peter W.; Chen, Xinfu) Convergence of the Cahn-Hilliard equation to the Hele-Shaw model. (English summary) **97b:35174**
Bates, Peter W. *see* **Alikakos, Nicholas D.; et al., 97b:35174**
Borovikov, V. A. On the asymptotics of the Green function for an equation of internal waves as $t \to \infty$. (Russian) **97f:76013**
Bryuno, A. D. First approximations of differential equations. (Russian) **97a:34144**
Chen, Shuxing On interaction of shock and sound wave. I. (English summary) **97f:35135**
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Costabel, Martin (*with* Dauge, Monique) A singularly perturbed mixed boundary value problem. (English summary) **97k:35010**
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Gadyl'shin, R. R. On the perturbation of the Laplacian spectrum when the boundary condition type changes on a small part of the boundary. (Russian. Russian summary) **97g:35011**
Hanyga, A. Diffraction at ray field singularities. (English summary) **97e:58219**
He, Yuanping (*with* Moodie, T. Bryant) Geometrical optics and post shock behavior for nonlinear conservation laws. (English summary) **97d:35138**
Hemker, P. W. A singularly perturbed model problem for numerical computation. (English summary) **97k:65286**
Herrero, Miguel A. (*with* Velázquez, Juan J. L.) On the melting of ice balls. (English summary) **97m:35287**
Iida, Masato (*with* Ninomiya, Hirokazu) Asymptotic expansion of solutions to a chemical model with boundary reaction terms. **97f:35097**
Kambulov, V. F. (*with* Kolesov, A. Yu.) On a model hyperbolic equation that arises in radiophysics. (Russian. English and Russian summaries) **97f:35141**
Kevorkian, J. (*with* Cole, Julian D.) ★ Multiple scale and singular perturbation methods. (English summary) **97k:34001**
Khas'minskiĭ, R. Z. (*with* Yin, Gang George) Asymptotic series for singularly perturbed Kolmogorov-Fokker-Planck equations. (English summary) **97j:60141**
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Kozlov, Vladimir Arkad'evich (*with* Maz'ya, Vladimir; Movchan, A. B.) Asymptotic representation of elastic fields in a multi-structure. (English summary) **97f:73010**
Łada, A. Multidimensional oscillations for non-linear hyperbolic mixed problem: the justified non-linear geometric optics method. (English summary) **97a:35153**
Mandai, T. Asymptotic solutions for exceptional cases of characteristic Cauchy problems to Fuchsian partial differential equations. (*see* **97d:35004**)
Maslov, V. P. *see* **Vakulenko, S. A.; et al., 97e:35147**
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Molotkov, I. A. *see* **Vakulenko, S. A.; et al., 97e:35147**
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Naumkin, P. I. (*with* Shishmarev, I. A.) Asymptotic behavior as $t \to \infty$ of the solutions of the generalized Korteweg-de Vries equation. (Russian. Russian summary) **97h:35197**
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— Asymptotics at infinity of the solution to the Dirichlet problem for a system of equations with periodic coefficients in an angular domain. (English summary) **97g:35034**
— Junctions of singularly degenerating domains with different limit dimensions. I. (English summary) **97k:35038**
Ninomiya, Hirokazu *see* **Iida, Masato, 97f:35097**
Novokshenov, V. Yu. The "breather-train" solution of the sine-Gordon equation with the "periodic wave-zero" boundary conditions. (English summary) **97i:35156**
Paul, T. (*with* Uribe, A.) On the pointwise behavior of semi-classical measures. (English summary) **97a:58189**
Shafarevich, A. I. *see* **Vakulenko, S. A.; et al., 97e:35147**
Shih, Shagi-Di A uniform solution of a parabolic problem with angular layer behavior. (English summary) **97b:35088**
Shishkin, Grigorii. Approximation of solutions and of diffusion flows in the case of singularly perturbed boundary value problems with discontinuous initial conditions. (Russian. Russian summary) **97j:65163**
Shishmarev, I. A. *see* **Naumkin, P. I., 97h:35197**
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Varlamov, Vladimir V. Large-time asymptotics of a solution, periodic with respect to space, of the Boussinesq equation with dissipation. (Russian) **97e:35166**
Velázquez, Juan J. L. *see* **Herrero, Miguel A., 97m:35287**
Ward, Michael J. Metastable bubble solutions for the Allen-Cahn equation with mass conservation. (English summary) **97e:35144**
Yin, Gang George *see* **Khas'minskiĭ, R. Z., 97j:60141**
Zili, Mounir Développement asymptotique en temps petits de la solution d'une équation aux dérivées partielles de type parabolique. (English and French summaries) [Short-time asymptotic expansion of the solution of a partial differential equation of parabolic type] **97d:35099**

35C99 None of the above, but in this section

Barański, Feliks (*with* Pieniążek, Alicja) The limit parabolic problem for semi-curvilinear trapezium with Neumann boundary condition. (Polish summary) (*see* **97m:35004**)
— (*with* Pieniążek, Alicja) The limit problem for the system of the parabolic equations for curvilinear trapezium and Neumann boundary data. (Polish summary) (*see* **97m:35004**)
Bentrad, A. Représentation hypergéométrique de la solution pour une classe d'opérateurs d'ordre deux. (English summary) [Hypergeometric representation of the solution for a class of second-order operators] **97i:35013**
Boyd, John Philip Peakons and coshoidal waves: traveling wave solutions of the Camassa-Holm equation. (English summary)
Fedoruk, M. P. The use of the continuation method for constructing self-similar solutions of Langmuir wave collapses. (Russian. Russian summary)
Hähner, Peter A periodic Faddeev-type solution operator. (English summary) **97d:35021**
Mitra, Samarendra Kumar A new method of solution of the boundary value problems of Laplace's equation relating to two spheres. II. Non-axial symmetric problems. **97k:35023**
Pieniążek, Alicja *see* **Barański, Feliks, (97m:35004)** *and* **(97m:35004)**
Zhou, Zi-Xiang Binary Darboux transformations for Manakov triad. II. (English summary) **97d:35022**

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Anikonov, Yu. E. Constructive methods of studying multidimensional inverse kinematic problems. (English summary) **97f:86009**
Cabannes, Henri *see* **Sibgatullin, N. R., 97d:82071**
Cannone, M. (*with* Planchon, F.) Self-similar solutions for Navier-Stokes equations in $\mathbf{R}^3$. (English summary) **97a:35172**
Cao, Hua Sheng *see* **Yu, Jin Hai; et al.**
Casas, Fernando Solution of linear partial differential equations by Lie algebraic methods. (English summary) **97k:35006**
Davlyatov, I. Classical relations for discrete vector operators. (Russian. Tajiki summary) **97f:39021**
Dimitrovski, Dragan (*with* Rajović, Miloje; Stojiljković, Rade) On a generalization of I. N. Vekua's equation with analytic coefficients in $z, \bar{z}$. (Macedonian. English and Macedonian summaries) **97b:35084**
Ermolaev, E. A. (*with* Zhestkov, S. V.; Kuvshinov, V. I.) On the existence of soliton-like solutions of some classes of systems of partial differential equations with power nonlinearity. (Russian. English and Russian summaries) **97a:35195**
Firstov, V. V. (*with* Shirokov, I. V.) Classification of quadratic algebras of symmetry for the Schrödinger equation. (Russian. Russian summary) **97a:35006**
Fuchssteiner, Benno (*with* Lo Schiavo, Mauro) Nonlinear PDE's and recursive flows: theory. (English summary) **97b:35007**
— (*with* Lo Schiavo, Mauro) Nonlinear PDE's and recursive flows: applications. (English summary) **97b:35008**

Goberna, D. *see* **Jódar, Lucas, 97c:65153**
Halpern, Laurence Spectral methods in polar coordinates for the Stokes problem. Application to computation in unbounded domains. (English summary) **97e:65100**
Hofmann, Steve (*with* Lewis, John L.) L^2 solvability and representation by caloric layer potentials in time-varying domains. (English summary) **97h:35072**
Igbida, N. Solutions auto-similaires pour une équation de Barenblatt. (English and French summaries) [Self-similar solutions for a Barenblatt equation] **97d:35114**
Jódar, Lucas (*with* Goberna, D.) Exact and analytic numerical solution of coupled diffusion problems in a semi-infinite medium. (English summary) **97c:65153**
Joseph, K. T. (*with* Veerappa Gowda, G. D.) Max-min representation of solutions of Hamilton-Jacobi equation in the quarter plane. (English summary) **97c:35028**
Kierat, Władysław (*with* Skórnik, Krystyna) On generalized functions approach to the Cauchy problem for heat equation. (English summary) **97j:35056**
Koroński, Jan The polyparabolic problem for the quart time plane with boundary conditions of Lauricella type. (Polish summary) (*see* **97m:35004**)
— The polyparabolic problem for the strip with boundary conditions of Lauricella type. (Polish summary) (*see* **97m:35004**)
— The first three-parabolic problem for the time-spatial curvilinear trapezium. (English summary) **97i:35067**
Korzyuk, V. I. The Friedrichs lemma for averaging operators with a variable step. (Russian. English and Russian summaries) **97j:47046**
Kuvshinov, V. I. *see* **Ermolaev, E. A.; et al., 97a:35195**
Kythe, Prem K. (*with* Puri, Pratap; Schäferkotter, Michael R.) ★ Partial differential equations and Mathematica. (English summary) **97m:35002**
Le Gall, Jean-François A probabilistic approach to the trace at the boundary for solutions of a semilinear parabolic partial differential equation. (English summary) **97m:35125**
Lewis, John L. *see* **Hofmann, Steve, 97h:35072**
Lo Schiavo, Mauro *see* **Fuchssteiner, Benno, 97b:35007** *and* **97b:35008**
Lu, Zhu-Jia Exact solutions of Cauchy problem for partial differential equations with double characteristics and singular coefficients. (English summary) **97c:35001**
Mityushev, V. V. Generalized method of Schwarz and addition theorems in mechanics of materials containing cavities. (English summary) **97h:73019**
Palamodov, V. P. On "holomorphic" functions of several quaternionic variables. (English summary) **97i:30065**
Planchon, F. *see* **Cannone, M., 97a:35172**
Protsenko, V. S. On addition theorems for harmonic functions in coordinates of an oblate ellipsoid. (Russian. English summary) **97a:33040**
Puri, Pratap *see* **Kythe, Prem K.; et al., 97m:35002**
Rajović, Miloje *see* **Dimitrovski, Dragan; et al., 97b:35084**
Roşculeţ, M. N. Dérivées partielles aréolaires sur des algèbres commutatives. IX. Équations aux dérivées partielles aréolaires sur une algèbre à base infinie. (English, French and Romanian summaries) [Areolar partial derivatives on commutative algebras. IX. Areolar partial differential equations on an algebra with infinite basis]
Ryan, John Conformally covariant operators in Clifford analysis. (English summary) **97a:30062**
Rylov, Yu. A. Dirac equation in terms of hydrodynamic variables. (English summary) **97g:81021**
Sabatier, Pierre C. Inverse problems versus an algebraic spectral method for nonlinear evolution equations. (English summary) (*see* **97a:00029**)
Schäferkotter, Michael R. *see* **Kythe, Prem K.; et al., 97m:35002**
Shirokov, I. V. *see* **Firstov, V. V., 97a:35006**
Sibgatullin, N. R. (*with* Cabannes, Henri) Homogeneous solutions for a semicontinuous model of the Boltzmann equation. **97d:82071**
Skórnik, Krystyna *see* **Kierat, Władysław, 97j:35056**
Stojiljković, Rade *see* **Dimitrovski, Dragan; et al., 97b:35084**
Tchamitchian, Philippe Inversion de certains opérateurs elliptiques à coefficients variables. (English summary) [Inversion of certain elliptic operators with variable coefficients] **97j:35008**
Veerappa Gowda, G. D. *see* **Joseph, K. T., 97c:35028**
Xiao, Xiu Zhi The linear partial differential equations with polynomial coefficients, whose arbitrary solution is a non-rational function. (Chinese summary) **97d:35027**
Yanushauskas, A. Composition formulas for some integro-differential operators and their application. (Russian. Lithuanian summary) **97i:47104**
Yu, Jin Hai (*with* Zhu, Zhuo Wen; Cao, Hua Sheng) Integral solutions of Robin exterior problems for the Poisson equation. (Chinese)
Zhestkov, S. V. *see* **Ermolaev, E. A.; et al., 97a:35195**
Zhu, Zhuo Wen *see* **Yu, Jin Hai; et al.**

35Dxx Generalized solutions of partial differential equations

Items with secondary classifications in 35Dxx

Oberguggenberger, Michael Contributions of nonstandard analysis to partial differential equations. **97g:35003**

35D05 Existence of generalized solutions

Alvarez, Olivier (*with* Tourin, Agnès) Viscosity solutions of nonlinear integro-differential equations. (English and French summaries) **97d:35023**
Bucur, Dorin Un théorème de caractérisation pour la γ-convergence. (English and French summaries) [A characterization theorem for γ-convergence] **97k:35024**
Colombeau, J. F. (*with* Heibig, Arnaud; Oberguggenberger, Michael) Generalized solutions to partial differential equations of evolution type. (English summary) **97j:35011**
Dolcini, Alfredo A uniqueness result for very weak solutions of p-harmonic type equations. (Italian summary) **97c:35022**
Heibig, Arnaud (*with* Moussaoui, Mohand-Arezki) Generalized and classical solutions of nonlinear parabolic equations. **97b:35024**
— *see also* **Colombeau, J. F.; et al., 97j:35011**
Ishii, Hitoshi On the equivalence of two notions of weak solutions, viscosity solutions and distribution solutions. **97d:35024**
Ishii, Katsuyuki (*with* Tomita, Yoshihito) On unbounded viscosity solutions of nonlinear second order partial differential equations. **97a:35024**
— (*with* Tomita, Yoshihito) On unbounded viscosity solutions of nonlinear second order partial differential equations. **97k:35025**
Izumiya, Shyūichi (*with* Kossioris, Georgios T.) Singularities for viscosity solutions of Hamilton-Jacobi equations. **97e:35021**
Kim, Tu Jin (*with* Ri, Myŏng Hwan) Existence and uniqueness of a generalized solution to a mixed problem for a nonlinear partial differential equation. (Korean. English summary)
Kossioris, Georgios T. *see* **Izumiya, Shyūichi, 97e:35021**
Li, Gong Bao (*with* Zhou, Huan Song) The existence of a weak solution of inhomogeneous quasilinear elliptic equation with critical growth conditions. (English summary) **97f:35024**
Lions, Pierre-Louis On some recent methods for nonlinear partial differential equations. **97e:35022**
Lu, Yun-guang Existence of generalized solutions to a class of systems of coupled nonlinear hyperbolic equations. (Chinese. English and Chinese summaries) **97h:35024**
Moussaoui, Mohand-Arezki *see* **Heibig, Arnaud, 97b:35024**
Ngo Phu Thanh Cauchy problems in algebras of new generalized functions. (Russian. English and Russian summaries) **97a:35025**
Oberguggenberger, Michael *see* **Colombeau, J. F.; et al., 97j:35011**
Ri, Myŏng Hwan *see* **Kim, Tu Jin**
Tomita, Yoshihito *see* **Ishii, Katsuyuki, 97a:35024** *and* **97k:35025**
Tourin, Agnès *see* **Alvarez, Olivier, 97d:35023**
Zhou, Huan Song *see* **Li, Gong Bao, 97f:35024**

Items with secondary classifications in 35D05

Abergel, F. (*with* Decarreau, A.; Rakotoson, Jean Michel) Study of a nonlinear elliptic-parabolic equation with measures as data: existence regularity and behaviour near a singularity. **97a:35120**
Aguirre Téllez, Manuel A. (*with* Trione, Susana Elena) The distributional convolution products of Marcel Riesz' ultra-hyperbolic kernel. (English summary) **97a:46051**
Andreucci, Daniele (*with* Gianni, Roberto) Global existence and blow up in a parabolic problem with nonlocal dynamical boundary conditions. (English summary) **97d:35111**
Attouch, Hedy Viscosity solutions of minimization problems. (English summary) **97b:49041**
Badiale, Marino (*with* Dobarro, Fernando) Some existence results for sublinear elliptic problems in $\mathbf{R}^N$. (English summary) **97k:35057**
Bas, M. O. (*with* Lavrenyuk, S. P.) On the uniqueness of the Fourier problem for a system of Sobolev-Gal'pern type. (Ukrainian. English and Ukrainian summaries) **97b:35026**
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Święch, Andrzej *see* **Caffarelli, Luis A.; et al., 97a:35051**
Tan, Zhong Generalized Campanato-Morrey spaces and their applications. (Chinese. English and Chinese summaries) **97g:46039**
Toledo, Julián *see* **Mazón, José M., 97i:35077**
Xu, Xiangsheng Local partial regularity theorems for suitable weak solutions of a class of degenerate systems. (English summary) **97e:35098**
Yu, Ming Qi *see* **Liang, Xi Ting, 97h:35047**
Yuan, Guang Wei *see* **Guo, Bo Ling, 97b:35152**
Yuan, Hong Jun Existence and nonexistence of interfaces of weak solutions for nonlinear degenerate parabolic systems. (English summary) **97d:35097**
Zhou, Shu Lin[1] Hölder continuity of weak solutions for a class of the equations of non-Newtonian polytropic filtration. (English and Chinese summaries) **97b:35099**

35D99 None of the above, but in this section

Lumer, Günter Transitions singulières gouvernées par des équations de type parabolique. (English and French summaries) [Singular transitions governed by equations of parabolic type] **97c:35023**
Ramaswamy, Mythily (*with* Ramaswamy, Sundararaja) Local property of viscosity solutions of fully nonlinear second order elliptic partial differential equations. (English summary) **97d:35025**
Ramaswamy, Sundararaja *see* **Ramaswamy, Mythily, 97d:35025**

Items with secondary classifications in 35D99

Albeverio, Sergio (*with* Haba, Zbigniew; Russo, Francesco) Trivial solutions for a nonlinear two-space-dimensional wave equation perturbed by space-time white noise. (English summary) **97e:60104**

Barbu, Viorel (*with* Pavel, N. H.) Periodic solutions to one-dimensional wave equation with piece-wise constant coefficients. (English summary) **97j:35086**
Greco, Luigi Functionals with L log L-growth in the gradient. (Italian summary) **97c:49010**
Haba, Zbigniew *see* **Albeverio, Sergio; et al., 97e:60104**
Matušů-Nečasová, Šárka Measure valued solution of non-Newtonian compressible heat conductive fluid. (English summary) (*see* **97a:00029**)
Pavel, N. H. *see* **Barbu, Viorel, 97j:35086**
Russo, Francesco *see* **Albeverio, Sergio; et al., 97e:60104**
Sarrico, Carles Orlando Distributional products with invariance for the action of unimodular groups. (Italian summary) **97l:46074**
Yao, Zhengan (*with* Zhou, Tieqiang) A proof for the time dependent form of div-curl lemma. (English and Chinese summaries)
Zhou, Tieqiang *see* **Yao, Zhengan**

35Exx Equations and systems with constant coefficients [see also 35N05]

Meise, Reinhold (*with* Taylor, B. Alan; Vogt, Dietmar) Continuous linear right inverses for partial differential operators of order 2 and fundamental solutions in half spaces. (English summary) **97h:35026**
Taylor, B. Alan *see* **Meise, Reinhold; et al., 97h:35026**
Vogt, Dietmar *see* **Meise, Reinhold; et al., 97h:35026**

35E05 Fundamental solutions

Meise, Reinhold (*with* Taylor, B. Alan; Vogt, Dietmar) Right inverses for linear, constant coefficient partial differential operators on distributions over open half spaces. (English summary) **97m:35034**
Ortner, Norbert (*with* Wagner, Peter^2) Feynman integral formulae and fundamental solutions of decomposable evolution operators. (English summary) **97a:35027**
— (*with* Wagner, Peter^2) A short proof of the Malgrange-Ehrenpreis theorem. (English summary) **97g:35021**
Taylor, B. Alan *see* **Meise, Reinhold; et al., 97m:35034**
Tomlinson, Kathy Some fundamental solutions which generalize Fresnel integrals. (English summary) **97a:35028**
Vogt, Dietmar *see* **Meise, Reinhold; et al., 97m:35034**
Wagner, Peter^2 *see* **Ortner, Norbert, 97a:35027** *and* **97g:35021**

Items with secondary classifications in 35E05

Akhiev, Seyidali S. A new fundamental solution concept and application to some local and non-local problems. (English summary) **97b:35004**
Ĭ̆kĭv, V. S. (*with* Ptashnik, B. I.) Representation and investigation of solutions of a nonlocal boundary value problem for a system of partial differential equations. (Ukrainian. English and Ukrainian summaries) **97k:35019**
Natroshvili, D. G. Two-dimensional steady-state oscillation problems of anisotropic elasticity. (English summary) **97c:73017**
Ptashnik, B. I. *see* **Ĭ̆kĭv, V. S., 97k:35019**

35E10 Convexity properties

Items with secondary classifications in 35E10

Blocki, Zbigniew Smooth exhaustion functions in convex domains. **97j:35028**
Kakié, Kunio Uniqueness and pseudo-convexity in the Cauchy problem for an overdetermined system of partial differential equations. **97h:35170**

35E15 Initial value problems

Bobik, Ĭ. O. (*with* Ptashnik, B. I.) Boundary-value problems for hyperbolic equations with constant coefficients. (English summary) **97j:35012**
Kelemen, Matei Time decay rates for undamped constant coefficients linear partial differential equations. (English summary) **97c:35024**
Ptashnik, B. I. (*with* Silyuga, L. P.) A multipoint problem for typeless differential equations with constant coefficients. (Ukrainian. English summary) **97j:35013**
— *see also* **Bobik, Ĭ. O., 97j:35012**
Silyuga, L. P. *see* **Ptashnik, B. I., 97j:35013**

Items with secondary classifications in 35E15

Dzhokhadze, O. M. Spatial problem of Darboux type for one model equation of third order. (English summary) **97k:35153**

35E20 General theory

Abramyan, Anna Vladimirovna (*with* Nogin, V. A.) Fractional powers of second-order differential operators with constant coefficients in L_p-spaces. (Russian) **97c:35025**
Clauss, Ute (*with* Hamann, Uwe) Approximation by normal derivatives of fundamental solutions of elliptic differential operator systems. (English summary) **97m:35035**
Franken, Uwe (*with* Meise, Reinhold) Continuous linear right inverses for homogeneous linear partial differential operators on bounded convex open sets and extension of zero-solutions. **97k:35026**
Hamann, Uwe *see* **Clauss, Ute, 97m:35035**
Meise, Reinhold (*with* Taylor, B. Alan; Vogt, Dietmar) ω-hyperbolicity of linear partial differential operators with constant coefficients. **97h:35027**
— *see also* **Franken, Uwe, 97k:35026**
Nogin, V. A. *see* **Abramyan, Anna Vladimirovna, 97c:35025**
Ramm, Alexander G. Property C with constraints for PDE. (English summary) **97k:35027**
Taylor, B. Alan *see* **Meise, Reinhold; et al., 97h:35027**
Vogt, Dietmar *see* **Meise, Reinhold; et al., 97h:35027**

Items with secondary classifications in 35E20

Abramyan, Anna Vladimirovna (*with* Nogin, V. A.) Complex powers of hypoelliptic operators of the second order with constant coefficient in L_p-spaces. (*see* **97g:00017**)
Bagby, Thomas (*with* Levenberg, Norman) Bernstein regions for elliptic operators in two dimensions. **97e:41049**
Demidenko, G. V. (*with* Nekhaev, I. Yu.) On regularity of solutions to boundary value problems for quasielliptic equations [translation of *Theoretical and computational problems in mathematical physics (Russian)*, 144–166, "Nauka", Sibirsk. Otdel., Novosibirsk, 1994]. (English summary) **97i:35061**
Ebenfelt, Peter Polynomial modules and a generalized Cauchy problem for systems of holomorphic partial differential operators. (English summary) **97c:35003**
Franken, Uwe (*with* Meise, Reinhold) Extension and lacunas of solutions of linear partial differential equations. (English and French summaries) **97h:35005**
Langenbruch, Michael Surjective partial differential operators on spaces of ultradifferentiable functions of Roumieu type. **97e:47083**
Levenberg, Norman *see* **Bagby, Thomas, 97e:41049**
Mainardi, Francesco Energy propagation for dispersive waves in dissipative media. **97k:35154**
Meise, Reinhold (*with* Taylor, B. Alan; Vogt, Dietmar) Continuous linear right inverses for partial differential operators on non-quasianalytic classes and on ultradistributions. (English summary) **97j:46036**
— *see also* **Franken, Uwe, 97h:35005**
Nedeljkov, Marko (*with* Pilipović, Stevan; Scarpalézos, Dimitris) Division problem and partial differential equations with constant coefficients in Colombeau's space of new generalized functions. (English summary) **97k:46043**
Nekhaev, I. Yu. *see* **Demidenko, G. V., 97i:35061**
Nogin, V. A. *see* **Abramyan, Anna Vladimirovna, (97g:00017)**
Pilipović, Stevan (*with* Scarpalézos, Dimitris) Differential operators with generalized constant coefficients. (English summary) **97i:35018**
— *see also* **Nedeljkov, Marko; et al., 97k:46043**
Rakhimov, A. A. On conditions for the localization of spectral expansions that correspond to elliptic operators of class A_r. (Russian. Russian summary) **97e:35123**
Reznick, Bruce Homogeneous polynomial solutions to constant coefficient PDE's. **97a:12006**
Scarpalézos, Dimitris *see* **Pilipović, Stevan, 97i:35018** *and* **Nedeljkov, Marko; et al., 97k:46043**
Shapiro, Harold S. *see* **Sternin, B. Yu.; et al., 97d:31005**
Shatalov, V. E. *see* **Sternin, B. Yu.; et al., 97d:31005**
Sternin, B. Yu. (*with* Shapiro, Harold S.; Shatalov, V. E.) Schwarz potential and singularities of the solutions of the branching Cauchy problem. (Russian) **97d:31005**
Tabov, Ĭordan B. Formally integrable complex linear systems of PDEs with constant coefficients in $\mathbf{R}^3$. **97g:35010**
Taylor, B. Alan *see* **Meise, Reinhold; et al., 97j:46036**
Vogt, Dietmar *see* **Meise, Reinhold; et al., 97j:46036**

35E99 None of the above, but in this section

Items with secondary classifications in 35E99

Hayashi, Nakao (*with* Saut, Jean-Claude) Global existence of small solutions to the Ishimori system without exponential decay on the data. (English summary) **97l:35164**
Saut, Jean-Claude *see* **Hayashi, Nakao, 97l:35164**

35Fxx General first-order equations and systems

35F05 General theory of linear first-order PDE

Akahori, Takao On a local embedding theorem of generalized-Mizohata structures. **97k:35028**
Andryan, A. A. On the solvability of a system of partial differential equations. (Russian) **97f:35026**
Azérad, Pascal (*with* Pousin, Jérôme) Inégalité de Poincaré courbe pour le traitement variationnel de l'équation de transport. (English and French summaries) [A curved Poincaré inequality for the variational form of the advection equation] **97c:35026**
Emamirad, H. (*with* Protopopescu, Vladimir) The Liouville equation in L^1 spaces. (English summary) **97b:35025**
Hounie, Jorge (*with* Tavares, Joaquim) Removable singularities of vector fields and the Nirenberg-Treves property. (English summary) **97m:35036**
Matyukalte, R. P. The Riemann-Hilbert problem with discontinuous coefficients for the Moisil-Teodorescu system. (Russian. Russian summary)
Pousin, Jérôme *see* **Azérad, Pascal, 97c:35026**
Protopopescu, Vladimir *see* **Emamirad, H., 97b:35025**
Tavares, Joaquim *see* **Hounie, Jorge, 97m:35036**
Topa, Stefan Des systèmes d'équations différentielles linéaires d'ordre 1 et leurs liaisons avec des fonctions homogènes généralisées. [Systems of linear differential equations of order 1 and their connections with generalized homogeneous functions] **97k:35029**

Items with secondary classifications in 35F05

Hounie, Jorge (*with* Tavares, Joaquim) On removable singularities of locally solvable differential operators. (English summary) **97h:35006**
Leonetti, Francesco (*with* Nesi, Vincenzo) Quasiconformal solutions to certain first order systems and the proof of a conjecture of G. W. Milton. (English summary) **97j:35019**
Nesi, Vincenzo *see* **Leonetti, Francesco, 97j:35019**
Rea, Claudio Integrable singularities of the solutions of first-order complex linear operators and CR-functions. (Italian) **97e:32011**
Riad, Rafat Two-dimensional block-pulse functions series solution of a system of first-order partial differential equations. **97m:35030**
Subbotin, A. I. Minimax solutions of first-order partial differential equations. (Russian) **97g:49039**

Tabov, Ĭordan B. Formally integrable complex linear systems of PDEs with constant coefficients in $\mathbf{R}^3$. **97g:35010**
Tavares, Joaquim *see* **Hounie, Jorge, 97h:35006**

35F10 Initial value problems for linear first-order PDE, linear evolution equations

Attia Hussein, Hassan (*with* El-Fiky, A.) On the order of exponential growth of the solutions of certain linear partial differential equations. **97e:35027**
El-Fiky, A. *see* **Attia Hussein, Hassan, 97e:35027**

Items with secondary classifications in 35F10

Hackenbroch, Wolfgang Product integration for bounded operator measures. **97i:47081**

35F15 Boundary value problems for linear first-order PDE

Bernstein, Swanhild On the left linear Riemann problem in Clifford analysis. (English summary) **97k:35030**
Kulik, A. I. *see* **Sartabanov, Zh. A., 97i:35014**
Sartabanov, Zh. A. (*with* Kulik, A. I.) On the solutions of a boundary value problem for a system of D-equations. (Russian. English, Russian and Kazakh summaries) **97i:35014**
— Boundary value problems for multiperiodic systems of D-equations. (Russian. English, Russian and Kazakh summaries) **97i:35015**

Items with secondary classifications in 35F15

Butuzov, V. F. (*with* Karashchuk, A. F.) On a singularly perturbed system of first-order partial differential equations. (Russian. Russian summary) **97b:35017**
Karashchuk, A. F. *see* **Butuzov, V. F., 97b:35017**
Kravchenko, V. V. (*with* Ramírez de Arellano, Enrique; Shapiro, M. V.) On integral representations and boundary properties of spinor fields. (English summary) **97g:35020**
Nishitani, Tatsuo (*with* Takayama, Masahiro) A characteristic initial-boundary value problem for a symmetric positive system. (English summary) **97a:35136**
Ramírez de Arellano, Enrique *see* **Kravchenko, V. V.; et al., 97g:35020**
Shapiro, M. V. *see* **Kravchenko, V. V.; et al., 97g:35020**
Takayama, Masahiro *see* **Nishitani, Tatsuo, 97a:35136**
Xu, Zhen Yuan[1] (*with* Zhou, Chiping) On Riemann-Hilbert problems for nonhomogeneous Dirac equations in a half space of $\mathbf{R}^m$ ($m \geq 2$). (English summary) **97d:35167**
Zhou, Chiping *see* **Xu, Zhen Yuan[1], 97d:35167**

35F20 General theory of nonlinear first-order PDE

Barthélemy, Louise Problème d'obstacle pour une équation quasi-linéaire du premier ordre. (English and French summaries) [Obstacle problem for a first-order quasilinear equation]
Crandy, Timothy R. On the uniqueness of solutions of the homogeneous curvature equations. (English summary) **97i:35016**
Díaz Díaz, Gregorio (*with* Rey, J. M.) Regularity and extinction rate in a perturbed Hamilton-Jacobi equation. (Spanish) (*see* **97g:00019**)
Doyle, Philip W. (*with* Grundland, A. M.) Simple waves and invariant solutions of quasilinear systems. (English summary) **97a:35029**
Ferone, Vincenzo (*with* Posteraro, Maria Rosaria; Volpicelli, R.) An inequality concerning rearrangements of functions. **97f:35027**
Grundland, A. M. *see* **Doyle, Philip W., 97a:35029**
Hemmati, Jill E. Entire solutions of first-order nonlinear partial differential equations. (English summary) **97g:35022**
Joseph, K. T. (*with* Veerappa Gowda, G. D.) Max-min representation of solutions of Hamilton-Jacobi equation in the quarter plane. (English summary) **97c:35028**
Posteraro, Maria Rosaria *see* **Ferone, Vincenzo; et al., 97f:35027**
Rey, J. M. *see* **Díaz Díaz, Gregorio, (97g:00019)**
Talenti, Giorgio On complex-valued solutions to a 2D eikonal equation. (*see* **97h:35003**)
Veerappa Gowda, G. D. *see* **Joseph, K. T., 97c:35028**
Volpicelli, R. *see* **Ferone, Vincenzo; et al., 97f:35027**
Zhao, Hui Jiang First order quasilinear equations in several independent variables with singular initial data L^p ($p < \infty$). (English summary) **97i:35017**

Items with secondary classifications in 35F20

Aoki, Kenji A note on geometric changes of complete solutions of first order differential equations. **97e:58024**
Aviles, Patricio (*with* Giga, Yoshikazu) The distance function and defect energy. (English summary) **97g:49056**
Bainov, Drumi D. (*with* Kamont, Zdzisław; Minchev, Emil) On the stability of solutions of impulsive partial differential equations of first order. (English summary) **97f:35220**
Barron, Emmanuel N. (*with* Liu, Wenxiong) Semicontinuous solutions for Hamilton-Jacobi equations and the L^∞-control problem. (English summary) **97k:49044**
Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) Infinite-dimensional Hamilton-Jacobi equations and Dirichlet boundary control problems of parabolic type. (English summary) **97g:49035**
Chang, Huei-Wen *see* **Lei, Hin-Chi, 97j:35007**
Chentsov, A. G. *see* **Subbotin, A. I., 97k:49045**
Dehman, B. Local solvability for complex quasi-linear equations. (*see* **97e:35003**)
Demenchuk, A. K. On quasiperiodic solutions of nonlinear Pfaffian systems. (Russian. English and Russian summaries) **97a:35012**
Donato, Andrea (*with* Oliveri, Francesco) When nonautonomous equations are equivalent to autonomous ones. (English summary) **97b:35011**
Gafilchuk, V. V. *see* **Lubashevskii, I. A., 97b:58128**
Gardner, Robert Brown (*with* Kamran, Niky) Normal forms and focal systems for determined systems of two first-order partial differential equations in the plane. (English summary) **97i:58006**
Giga, Yoshikazu *see* **Aviles, Patricio, 97g:49056**
Grundland, A. M. (*with* Tafel, J.) Nonclassical symmetry reduction and Riemann wave solutions. (English summary) **97a:35008**
Hong, Bum Il A stability result for Dirichlet problem of the first-order Hamilton-Jacobi equations. **97b:49027**
Izumiya, Shyūichi (*with* Kurokawa, Yasuhiro) Holonomic systems of Clairaut type. (English summary) **97e:58026**
— (*with* Kossioris, Georgios T.) Singularities for viscosity solutions of Hamilton-Jacobi equations. **97e:35021**
Kamont, Zdzisław *see* **Bainov, Drumi D.; et al., 97f:35220**
Kamran, Niky *see* **Gardner, Robert Brown, 97i:58006**
Kossioris, Georgios T. *see* **Izumiya, Shyūichi, 97e:35021**
Kurokawa, Yasuhiro *see* **Izumiya, Shyūichi, 97e:58026**
Lei, Hin-Chi (*with* Chang, Huei-Wen) A list of hodograph transformations and exactly linearizable systems. (English summary) **97j:35007**
Leszczyński, Henryk On CC-solutions to the initial-boundary-value problem for first-order partial differential-functional equations. (English and Italian summaries) **97e:35201**
— Convergence results for unbounded solutions of first order non-linear differential-functional equations. (English summary) **97a:35244**
Liu, Wenxiong *see* **Barron, Emmanuel N., 97k:49044**
Lubashevskii, I. A. (*with* Gafilchuk, V. V.) Projection dynamics of highly dissipative systems. (English summary) **97b:58128**
Minchev, Emil *see* **Bainov, Drumi D.; et al., 97f:35220**
Namah, G. Asymptotic solution of a Hamilton-Jacobi equation. (English summary) **97f:35017**
Oliveri, Francesco *see* **Donato, Andrea, 97b:35011**
Pisani, Lorenzo Existence of periodic solutions for Hamiltonian systems at resonance. **97m:58164**
Silin, D. B. Multivalued integration and viscosity solutions of the Hamilton-Jacobi equation. (Russian. Russian summary) **97b:49028**
Subbotin, A. I. (*with* Chentsov, A. G.) An iterative procedure for constructing minimax and viscosity solutions of the Hamilton-Jacobi equations. (Russian) **97k:49045**
— Generalized solutions of partial differential equations of the first order. The invariance of graphs relative to differential inclusions. **97d:49032**
Tafel, J. *see* **Grundland, A. M., 97a:35008**
Tessitore, Maria Elisabetta *see* **Cannarsa, Piermarco, 97g:49035**
Treves, François Integrability of elliptic overdetermined systems of nonlinear first-order complex PDE. **97b:35134**

35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations

Barron, Emmanuel N. (*with* Jensen, Robert R.; Liu, Wenxiong) Hopf-Lax-type formula for $u_t + H(u, Du) = 0$. (English summary) **97a:35030**
Doyle, Philip W. Separation of variables for scalar evolution equations in one space dimension. (English summary) **97j:35014**
Gorenflo, Rudolf *see* **Trần Đức Vân; et al., 97a:35031**
Jensen, Robert R. *see* **Barron, Emmanuel N.; et al., 97a:35030**
Liu, Wenxiong *see* **Barron, Emmanuel N.; et al., 97a:35030**
Nguyễn Hoàng On the smoothness of global solutions of Hamilton-Jacobi equations. (English summary) **97e:35029**
— *see also* **Trần Đức Vân; et al., 97a:35031; 97c:35030** *and* **97e:35025**
Panov, E. Yu. On measure-valued solutions of the Cauchy problem for a first-order quasilinear equation. (Russian. Russian summary) **97d:35026**
Thanh, Mai Duc *see* **Trần Đức Vân; et al., 97c:35030**
Trần Đức Vân (*with* Thanh, Mai Duc; Nguyễn Hoàng) On the representation of Lipschitz global solutions of the Cauchy problem for Hamilton-Jacobi equations. **97c:35030**
— (*with* Nguyễn Hoàng; Gorenflo, Rudolf) The existence of global quasiclassical solutions of the Cauchy problem for Hamilton-Jacobi equations. (Russian. Russian summary) **97a:35031**
— (*with* Nguyễn Hoàng) On the existence of global solutions of the Cauchy problem for Hamilton-Jacobi equations. (English summary) **97e:35025**

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Augustynowicz, Antoni (*with* Leszczyński, Henryk) On x-analytic solutions to the Cauchy problem for partial differential equations with retarded variables. (English summary) **97b:35178**
Brandi, Primo (*with* Marcelli, Cristina) Haar inequality in hereditary setting and applications. (English summary) **97m:35263**
Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) Cauchy problem for Hamilton-Jacobi equations and Dirichlet boundary control problems of parabolic type. (English summary) **97c:49032**
Cazzani Nieri, Maria Grazia A uniqueness theorem for the solution of the Cauchy problem in the class of absolutely continuous functions in the sense of Tonelli. (Italian. French summary) **97i:35102**
Jaruszewska-Walczak, Danuta Uniqueness of solutions of the Cauchy problems for first order partial differential-functional equations. (English summary) **97b:35181**
Leszczyński, Henryk *see* **Augustynowicz, Antoni, 97b:35178**
Marcelli, Cristina *see* **Brandi, Primo, 97m:35263**
Tessitore, Maria Elisabetta *see* **Cannarsa, Piermarco, 97c:49032**

35F30 Boundary value problems for nonlinear first-order PDE

Dacorogna, Bernard (*with* Marcellini, Paolo) Théorèmes d'existence dans les cas scalaire et vectoriel pour les équations de Hamilton-Jacobi. (English and French summaries) [Existence theorems for Hamilton-Jacobi equations in the scalar and the vectorial cases] **97a:35032**
— (*with* Marcellini, Paolo) Sur le problème de Cauchy-Dirichlet pour les systèmes d'équations non linéaires du premier ordre. (English and French summaries) [Cauchy-Dirichlet problem for first-order nonlinear systems] **97e:35026**
Marcellini, Paolo *see* **Dacorogna, Bernard, 97a:35032** *and* **97e:35026**

Items with secondary classifications in 35F30

Ishii, Hitoshi (*with* Koike, Shigeaki) A new formulation of state constraint problems for first-order PDEs. (English summary) **97a:49040**
Koike, Shigeaki *see* **Ishii, Hitoshi, 97a:49040**
Pierre, Michel (*with* Rouy, Elisabeth) A tridimensional inverse shaping problem. (English summary) **97h:35233**
Rouy, Elisabeth *see* **Pierre, Michel, 97h:35233**

35F99 None of the above, but in this section

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Desjardins, Benoît A few remarks on ordinary differential equations. (English summary) **97j:34005**
Kornienko, V. V. On weak and strong irregularity. (Russian. Russian summary) **97j:35109**
Tabov, Ĭordan B. Formally integrable Mizohata systems in $\mathbf{R}^3$. **97c:35007**
Turo, Jan Stochastic functional partial differential equations of first order. (English summary) **97h:60066**

35Gxx General higher-order equations and systems

35G05 General theory of linear higher-order PDE

Golubeva, N. D. (*with* Pul′kina, L. S.) On a nonlocal problem with integral conditions. (Russian)
Pilipović, Stevan (*with* Scarpalézos, Dimitris) Differential operators with generalized constant coefficients. (English summary) **97i:35018**
Popiołek, Jan Properties of some integrals related to partial differential equations of order higher than two. (English summary) **97m:35037**
— On boundary-value problems for partial differential equations of order higher than two. (English summary) **97m:35038**
Pul′kina, L. S. *see* **Golubeva, N. D.**
Scarpalézos, Dimitris *see* **Pilipović, Stevan, 97i:35018**
Xiao, Xiu Zhi The linear partial differential equations with polynomial coefficients, whose arbitrary solution is a non-rational function. (Chinese summary) **97d:35027**

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Ebenfelt, Peter Polynomial modules and a generalized Cauchy problem for systems of holomorphic partial differential operators. (English summary) **97c:35003**
Gramchev, Todor (*with* Popivanov, Pet′r R.) On the local Gevrey solvability for quasihomogeneous linear operators in $\mathbf{R}^2$. (English summary) (*see* **97m:00024**)
Hounie, Jorge (*with* Tavares, Joaquim) On removable singularities of locally solvable differential operators. (English summary) **97h:35006**
Okada, Yasunori (*with* Yamane, Hideshi) A characteristic Cauchy problem in the complex domain. (English and French summaries) **97k:35005**
Popivanov, Pet′r R. *see* **Gramchev, Todor**, (**97m:00024**)
Puryushkis, G. Singularities of a solution on a boundary of smaller dimension. (Russian. Lithuanian summary) **97m:35010**
Tavares, Joaquim *see* **Hounie, Jorge, 97h:35006**
Yamane, Hideshi *see* **Okada, Yasunori, 97k:35005**

35G10 Initial value problems for linear higher-order PDE, linear evolution equations

Yang, Zhi Lin The Cauchy problem for the equation $\partial^m u/\partial t^m = Lu + f(x,t)$. (Chinese. English and Chinese summaries)

Items with secondary classifications in 35G10

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Del Santo, D. *see* **Colombini, F.; et al., 97g:35005**
Liu, Weixia *see* **Luan, Wengui, 97d:35005**
Luan, Wengui (*with* Liu, Weixia) The uniqueness and continuous dependence for characteristic Cauchy problem of partial differential equations. (English summary) **97d:35005**
Ma, Jin Qian Explicit solution of the Cauchy problem for a class of higher-order linear partial differential equations with variable coefficients. (Chinese. Chinese summary) **97b:35086**
Witte, Jörg Initial value conditions for linear partial differential operators in $\mathbf{C}^n$ given on n complex hyperplanes. **97f:35005**
Zuily, C. *see* **Colombini, F.; et al., 97g:35005**

35G15 Boundary value problems for linear higher-order PDE

Andryan, A. A. Boundary value problems for systems of differential equations that are not solved with respect to the highest derivative in t. (Russian. English and Russian summaries) **97e:35027**
Bas, M. O. (*with* Lavrenyuk, S. P.) On the uniqueness of the Fourier problem for a system of Sobolev-Gal′pern type. (Ukrainian. English and Ukrainian summaries) **97b:35026**
Benouar, Nour-Eddine *see* **Bouziani, Abdelfatah, 97k:35031**
Bouziani, Abdelfatah Mixed problem for certain non-classical equations containing a small parameter. (English summary) **97a:35033**
— (*with* Benouar, Nour-Eddine) Problème aux limites pour une classe d'équations de type non classique pour une structure pluri-dimensionnelle. (English summary) [Boundary value problem for a class of nonclassical equations for a multidimensional structure] **97k:35031**
Hochmuth, Reinhard An inhomogeneous Dirichlet problem for a non-hypoelliptic linear partial differential operator. (English summary) **97a:35034**
Lavrenyuk, S. P. *see* **Bas, M. O., 97b:35026**
Tataru, Daniel Carleman estimates and unique continuation for solutions to boundary value problems. (English summary) **97m:35039**

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Abujabal, Hamza A. S. (*with* El-Borai, Mahmoud M.) An abstract Dirichlet problem in the Hilbert space. (English summary) **97m:35272**
El-Borai, Mahmoud M. *see* **Abujabal, Hamza A. S., 97m:35272**
Mieloszyk, E. Well-defined solution problem for certain generalized boundary value problem. (English summary) **97m:47013**
Popiołek, Jan On boundary-value problems for partial differential equations of order higher than two. (English summary) **97m:35038**
Ptashnik, B. I. (*with* Silyuga, L. P.) A multipoint problem for type-free factored differential operators. (Ukrainian. English and Ukrainian summaries) **97d:35006**
Silyuga, L. P. *see* **Ptashnik, B. I., 97d:35006**
Wu, Fang Tong Reflection of singularities for boundary value problems with involutive multiple characteristics. (Chinese. English and Chinese summaries) **97m:35011**
Yao, Peng-Fei On the dual boundary conditions of the fourth derivative operators. (English summary) **97e:47120**

35G20 General theory of nonlinear higher-order PDE

Crowdy, Darren G. General solutions to the 2D Liouville equation. (English summary) **97i:35019**
Hamburger, Christoph Quasimonotonicity, regularity and duality for nonlinear systems of partial differential equations. (English summary) **97g:35023**

Items with secondary classifications in 35G20

Fuchssteiner, Benno (*with* Lo Schiavo, Mauro) Nonlinear PDE's and recursive flows: theory. (English summary) **97b:35007**
— (*with* Lo Schiavo, Mauro) Nonlinear PDE's and recursive flows: applications. (English summary) **97b:35008**
Ishii, Katsuyuki (*with* Tomita, Yoshihito) On unbounded viscosity solutions of nonlinear second order partial differential equations. **97a:35024**
— (*with* Tomita, Yoshihito) On unbounded viscosity solutions of nonlinear second order partial differential equations. **97k:35025**
— (*with* Yamada, Naoki) Some results on the viscosity solutions of fully nonlinear equations containing non-local terms. (English summary) (*see* **97a:00029**)
Lavrenyuk, S. P. (*with* Onishkevich, G. M.) Lyapunov stability of the zero solution of a nonlinear parabolic equation. (Ukrainian. English summary) **97m:35025**
Lions, Pierre-Louis On some recent methods for nonlinear partial differential equations. **97e:35022**
Lo Schiavo, Mauro *see* **Fuchssteiner, Benno, 97b:35007** *and* **97b:35008**
Onishkevich, G. M. *see* **Lavrenyuk, S. P., 97m:35025**
Otsuki, Tominosuke A nonlinear partial differential equation related with certain spaces with general connections. II. (English summary) **97h:53042**
Povzner, A. Ya. A method for finding asymptotic solutions of certain partial differential equations containing a small parameter. (English summary) **97m:35032**
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Yamada, Naoki *see* **Ishii, Katsuyuki**, (**97a:00029**)

35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations

Gourdin, Daniel (*with* Mechab, Mustapha) Solutions globales du problème de Goursat non linéaire. (English and French summaries) [Global solutions of the nonlinear Goursat problem] **97c:35031**
Hayashi, Nakao Local existence in time of solutions to higher-order nonlinear dispersive equations. (English summary) **97i:35020**
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Tahara, Hidetoshi Uniqueness of the solution of non-linear singular partial differential equations. **97h:35028**

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Han, Yongqian *see* **Tan, Shaobin, 97h:35199**
Kim, Tu Jin Existence and uniqueness of the solution to a Cauchy problem for a higher-order differential equation and its application. (Korean. English summary)
Tan, Shaobin (*with* Han, Yongqian) Long time behavior of solutions for nonlinear generalized evolution equation. (English summary) **97h:35199**
Yang, Zhi Lin The Cauchy problem for the equation $\partial^m u/\partial t^m = Lu + f(x,t)$. (Chinese. English and Chinese summaries)

35G30 Boundary value problems for nonlinear higher-order PDE

Mikulevičius, Remigius (*with* Pragarauskas, H.) Classical solutions of boundary value problems for some nonlinear integro-differential equations. (Russian. Lithuanian summary) **97j:35015**
Netesova, A. M. *see* **Netesova, T. M., (97i:35004)**
Netesova, T. M. (*with* Netesova, A. M.) Investigation of the invariant solvability of boundary value problems. (Russian. Russian summary) (*see* **97i:35004**)
Pragarauskas, H. *see* **Mikulevičius, Remigius, 97j:35015**

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Kim, Tu Jin (*with* Ri, Myŏng Hwan) Existence and uniqueness of a generalized solution to a mixed problem for a nonlinear partial differential equation. (Korean. English summary)
Ri, Myŏng Hwan *see* **Kim, Tu Jin**
Xu, Chao Jiang Dirichlet problems for the quasilinear second order subelliptic equations. (English summary) **97a:35036**

35H05 Hypoelliptic equations and systems [see also 58Gxx]

Abramyan, Anna Vladimirovna (*with* Nogin, V. A.) Complex powers of hypoelliptic operators of the second order with constant coefficient in L_p-spaces. (*see* **97g:00017**)
Akamatsu, Toyohiro Hypoellipticity of second order operators in $\mathbf{R}^2$ of the form $fX^2 + Y + g$. **97k:35032**
Batty, Charles J. K. (*with* Bratteli, Ola; Jørgensen, Palle E. T.; Robinson, Derek W.) Asymptotics of periodic subelliptic operators. (English summary) **97f:35028**
Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter) The Green function of model step two hypoelliptic operators and the analysis of certain tangential Cauchy Riemann complexes. **97f:35029**
— (*with* Gaveau, Bernard; Greiner, Peter) On a geometric formula for the fundamental solution of subelliptic Laplacians. (English summary) **97h:35029**
Ben Arous, Gérard (*with* Gradinaru, Mihai) Singularités des fonctions de Green hypoelliptiques. (English and French summaries) [Singularities of hypoelliptic Green functions] **97e:35028**
Birindelli, Isabeau (*with* Cutrì, Alessandra) A semi-linear problem for the Heisenberg Laplacian. (English summary) **97b:35027**
Boggiatto, Paolo (*with* Buzano, Ernesto; Rodino, Luigi) ★ Global hypoellipticity and spectral theory. (English summary) **97m:35040**
Brandolini, L. (*with* Rigoli, Marco; Setti, Alberto G.) On the existence of positive solutions of Yamabe-type equations on the Heisenberg group. (English summary) **97g:35024**
Bratteli, Ola *see* **Batty, Charles J. K.; et al., 97f:35028**
Buckley, Stephen M. (*with* Koskela, Pekka; Lu, Guozhen) Subelliptic Poincaré inequalities: the case $p < 1$. (English summary) **97d:35028**
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Capogna, Luca (*with* Danielli, Donatella; Garofalo, Nicola) Capacitary estimates and the local behavior of solutions of nonlinear subelliptic equations. (English summary) **97k:35033**
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Cutrì, Alessandra *see* **Birindelli, Isabeau, 97b:35027**
Danielli, Donatella Regularity at the boundary for solutions of nonlinear subelliptic equations. (English summary) **97b:35028**
— *see also* **Capogna, Luca; et al., 97k:35033**
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Reissig, Michael (*with* Yagdzhyan, K. A.) An interesting connection between hypoellipticity and branching phenomena for certain differential operators with degeneracy of infinite order. (English and Italian summaries) **97a:35035**
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Sidz, Leszek Regularity of solutions to the nonlinear subelliptic equations. (English summary) **97e:35029**
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Zhou, Xiaofang Hypoellipticity of nonlinear partial differential equations. (English summary) (*see* **97c:00055**)

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Christ, Michael Remarks on analytic hypoellipticity of $\overline{\partial}_b$. **97d:32022**
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— (*with* Karadzhov, G. E.; Müller, Detlef) Infinite-dimensional families of locally nonsolvable partial differential operators. (English summary) **97g:35006**
Cutrì, Alessandra (*with* Garroni, Maria Giovanna) Existence, uniqueness and regularity results for integro-differential Heisenberg equations. (English summary) **97j:35020**
Franchi, Bruno (*with* Lu, Guozhen; Wheeden, Richard L.) Weighted Poincaré inequalities for Hörmander vector fields and local regularity for a class of degenerate elliptic equations. (English summary) **97e:35018**
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Knöpfel, Holger The restricted mean value property for sub-Laplacians.
Lu, Guozhen Embedding theorems into Lipschitz and BMO spaces and applications to quasilinear subelliptic differential equations. (English summary) **97j:46030**
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Mustapha, Sami (*with* Varopoulos, Nicholas Th.) Comparaison hölderienne des distances sous-elliptiques et calcul $S(m, g)$. [Hölderian comparison of subelliptic distances and $S(m, g)$ calculus] **97a:35273**
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Pahk, Dae Hyeon (*with* Sohn, Byung Keun) On the solvability of convolution equations in Beurling's distributions. (English summary) **97d:46042**
Palagachev, Dian K. (*with* Popivanov, Petʺr R.) Sub-elliptic boundary value problems for quasilinear elliptic operators. (English summary) **97k:35082**
Popivanov, Petʺr R. *see* **Palagachev, Dian K., 97k:35082**
Shmyrev, G. A. On an integral representation of functions defined by a class of pseudodifferential operators. (Russian. Russian summary) **97d:35256**
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Tsutsumi, Akira (*with* Haruki, Shigeru) On an application of hypoellipticity to solutions of functional equations. (English summary) **97k:39025**
Ueki, Naomasa Hypoellipticity for the $\overline{\partial}$-Neumann problem on certain domains with infinite degeneracy. **97f:32015**
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Xu, Chao Jiang (*with* Zhu, Xu Sheng) On the inverse of a class of degenerate elliptic operators. (English summary) **97f:35078**
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35Jxx Partial differential equations of elliptic type [see also 58G05, 58G10]

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Gilbert, Robert P. (*with* Wood, David Harlan) Solving elliptic partial differential equations with MACSYMA. (English summary) **97g:35025**
Guo, Ben Qi (*with* Babuška, Ivo M.) Regularity of the solutions for elliptic problems on nonsmooth domains in $\mathbf{R}^3$. I. Countably normed spaces on polyhedral domains. (English summary) **97k:35034**
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Guan, Pengfei (*with* Sawyer, E. T.) Regularity estimates for the oblique derivative problem on non-smooth domains. II. (English summary) **97c:35224**
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Il'in, Vladimir Aleksandrovich ★ Spectral theory of differential operators. **97d:47057**
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35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [see also 31Axx, 31Bxx]

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Akishin, Pavel G. (*with* Vinitskiĭ, S. I.) ★ On Helmholtz problem for plane periodical structures. (English and Russian summaries) **97b:35029**
Aksenov, A. V. Symmetries and fundamental solutions of the multidimensional generalized axisymmetric Laplace equation. (Russian. Russian summary) **97m:35042**
Anar, I. Ethem Time harmonic wave propagation in a nonhomogeneous medium. **97f:35031**
Babich, V. M. (*with* Samokish, B. A.; Dementʹev, D. B.) Diffraction of a plane wave by a narrow cone. (Russian. English and Russian summaries) **97i:35022**
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Chandler-Wilde, Simon N. (*with* Ross, Christopher R.) Scattering by rough surfaces: the Dirichlet problem for the Helmholtz equation in a non-locally perturbed half-plane. (English summary) **97d:35030**
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Dynʹkin, Evsey An asymptotic Cauchy problem for the Laplace equation. (English summary) **97i:35023**

Ennenbach, R. (*with* Niemeyer, H.) The inclusion of Dirichlet eigenvalues with singularity functions. (English and German summaries) **97b:35030**

Fromm, Stephen J. (*with* McDonald, Patrick) A symmetry problem from probability. (English summary) **97m:35043**

Gaultier, Maurice (*with* Lezaun Iturralde, Mikel) Eigenvectors of the operator $T = -\mathrm{div}(-\Delta)^{-1}\mathrm{grad}$. (Spanish) (*see* **97g:00019**)

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Gregory, R. Douglas Helmholtz's theorem when the domain is infinite and when the field has singular points. (English summary) **97m:35044**

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Karachik, V. V. Reconstruction of a harmonic function in a half-space from the value of its mth normal derivative on the boundary. (Russian. Russian and Uzbek summaries) **97e:35030**

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Kravchenko, V. V. (*with* Santana, Gustavo) On singular integral operators associated with the vector Helmholtz equation. (English summary) **97g:35026**

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Maz'ya, Vladimir Boundary integral equations on a contour with peaks. (*see* **97k:73003**)

McCoy, Peter A. Solving boundary value problems with "average" data sampled on an arc. (English summary) **97e:35032**

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Melnikov, Yu. A. (*with* Loboda, V. V.; Govorukha, V. B.) Field of potential in a compound rectangle containing a linear inclusion. (English summary) **97m:35046**

Mitrea, Marius Boundary value problems and Hardy spaces associated to the Helmholtz equation in Lipschitz domains. (English summary) **97g:35027**

— *see also* **Jawerth, Björn, 97k:35037**

Mönch, Lars On the numerical solution of the direct scattering problem for an open sound-hard arc. (English summary) **97c:35033**

Naik, Naren (*with* Selvarajan, A.; Vasu, R. M.) A new perturbation solution to the scalar wave equation. (English summary) **97c:35034**

Nazarov, Sergeĭ A. (*with* Chernyaev, P. K.) The asymptotic behavior of a solution to the boundary-value problem in a degenerate domain with rapidly oscillating boundary. (English summary) **97h:35030**

— (*with* Specovius-Neugebauer, Maria) Approximation of exterior problems. Optimal conditions for the Laplacian. (English summary) **97j:35017**

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Yang, Fuqian (*with* Yao, Rong) The solution for mixed boundary value problems of two-dimensional potential theory. (English summary) **97a:35040**

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Yu, Jin Hai (*with* Zhu, Zhuo Wen; Cao, Hua Sheng) Integral solutions of Robin exterior problems for the Poisson equation. (Chinese)

Yuan, Guang Wei The existence and uniqueness of the weak solution for the evolutionary electrochemical machining problem. (English summary) **97c:35036**

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Aksoy, A. G. (*with* Maligranda, L.) Lipschitz-Orlicz spaces and the Laplace equation. (English summary) **97a:46033**

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— Un théorème de caractérisation pour la γ-convergence. (English and French summaries) [A characterization theorem for γ-convergence] **97k:35024**

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— *see also* **Kang, Hyeonbae, 97d:35242** *and* **Kim, Hyunseok, 97d:35243**

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Bates, Peter W. (*with* Ren, Xiaofeng) Transition layer solutions of a higher order equation in an infinite tube. **97a:49018**

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Lin, Zong Chi An asymptotic expression for the solutions to the mixed boundary value problem for a class of fourth order elliptic equations with singular limiting equations. (Chinese. Chinese summary) **97f:35023**

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Rabinovich, Vladimir S. Elliptic boundary value problems in domains with whirl points on the boundary. (English summary) (*see* **97m:00024**)
Roitberg, B. Ya. (*with* Roĭtberg, Ya. A.) Local increase of the smoothness of generalized solutions of elliptic boundary value problems in nonsmooth domains. (Russian) **97a:35048**
— (*with* Roĭtberg, Ya. A.) Elliptic boundary value problems in nonsmooth domains in complete scales of Banach spaces. (Russian) **97d:35045**
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Bugir, M. K. Ill-posed boundary value problems for an n-order polyharmonic equation. (Russian) **97d:35234**
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— (*with* Kondrat'ev, Vladimir Aleksandrovich) Estimates of the first eigenvalue for the Dirichlet problem. (English and French summaries) **97b:35137**
Faierman, M. (*with* Langer, Heinz) Elliptic problems involving an indefinite weight function. (English summary) **97f:35154**
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Golubeva, A. S. Solutions of a plate oscillation equation that are concentrated near closed extremal cycles. (Russian. English and Russian summaries) **97m:35249**
Guseĭnov, R. V. Boundary value problems for quasi-elliptic equations on compact manifolds. (Russian. Russian summary) **97m:58194**
He, Cheng (*with* Zhang, Wei-Tao) Boundary layer estimation of a singular problem with limit equation of order 2. (English summary) **97i:35008**
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35J45 General theory of elliptic systems of PDE

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— (*with* Li, Yan Yan) Erratum: "Degenerate elliptic systems and applications to Ginzburg-Landau type equations. I". **97d:35085b**
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Tutschke, Wolfgang 40 years generalized analytic functions—recent trends and open problems. **97a:30060**
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Orsina, Luigi Weak minima for some functionals and elliptic equations involving measures. (English and French summaries) **97e:49001**
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35J99 None of the above, but in this section

Demidenko, G. V. (*with* Nekhaev, I. Yu.) On regularity of solutions to boundary value problems for quasielliptic equations [translation of *Theoretical and computational problems in mathematical physics (Russian)*, 144–166, "Nauka", Sibirsk. Otdel., Novosibirsk, 1994]. (English summary) **97i:35061**
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Torres, Rodolfo H. (*with* Welland, Grant V.) Layer potential operators and a space of boundary data for electromagnetism in nonsmooth domains. **97b:31008**
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35Kxx Parabolic equations and systems [see also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]

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35K05 Heat equation

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Han, Weimin (*with* Zhou, Jin Shi) Quantitative justification of simplifications in some heat conduction problems. (English summary) **97e:35073**
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Mitropol'skiĭ, Yurii Alekseevich (*with* Shkhanukov, M. Kh.; Berezovskiĭ, A. A.) On a nonlocal problem for the heat equation in a two-dimensional domain and its difference approximation. (Russian. English summary) **97i:35062**
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Zhou, Hong Xing (*with* Zhang, Zhi Tao) Existence and uniqueness of a solution to the one-dimensional heat conduction equation in the case of nonlinear boundary input. (Chinese. English and Chinese summaries) **97m:35110**
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Bañuelos, Rodrigo (*with* Sá Barreto, Antônio) On the heat trace of Schrödinger operators. **97b:35031**
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Belishev, M. I. A canonical model of a dynamical system with boundary control in the inverse heat conduction problem. (Russian. Russian summary) **97a:93029**
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Berrone, L. R. Necessary and sufficient conditions for the subsistence of one-dimensional linear models of heat conduction. (English summary) **97b:80002**
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Botkin, N. D. Identification of parameters for heat conductivity equations. (English summary) (*see* **97h:00012**)
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Bryan, Kurt A boundary integral method for an inverse problem in thermal imaging. (English summary) **97j:35159**
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— *see also* **Omel'yanov, G. A.; et al., 97i:35196**
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Fleckinger, Jacqueline (*with* Levitin, M. R.; Vasil'ev, D. G.) Heat content of the triadic von Koch snowflake. (English summary) **97b:58133**
Floreanini, Roberto (*with* Negro, Javier; Nieto, Luis Miguel; Vinet, Luc) Symmetries of the heat equation on the lattice. (English summary) **97f:39017**
Freire, Alexandre Correction to: "Uniqueness for the harmonic map flow from surfaces to general targets" [Comment. Math. Helv. **70** (1995), no. 2, 310–338; MR 96f:58045]. **97c:58032**
Gao, Hong jun A problem in condensed two-phase combustion. (Chinese. English and Chinese summaries) **97j:80011**
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Grimaldi Piro, Anna (*with* Ragnedda, Francesco) Dirichlet problem for the heat equation in $h_c^1(d\omega)$. (English summary) **97f:35083**
Guan, Zhicheng (*with* Wang, Xu-Jia) Existence and blow-up of solutions to two-phase nonequilibrium problems. (English summary) **97d:35251**
Guil Guerrero, F. (*with* Mañas, Manuel) Finite-rank constraints on linear flows and the Davey-Stewartson equation. (English summary) **97e:35182**
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Ivanchov, M. I. On the inverse problem of finding the heat exchange coefficient. (Ukrainian. Ukrainian summary) **97c:80006**
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Leichtnam, Eric (*with* Golse, François; Stenzel, Matthew) Intrinsic microlocal analysis and inversion formulae for the heat equation on compact real-analytic Riemannian manifolds. (English summary) **97h:58153**
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Nanda, Arati (*with* Das, Purna C.) Determination of the source term in the heat conduction equation. (English summary) **97d:35246**
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Norris, James R. Small time asymptotics for heat kernels with measurable coefficients. (English and French summaries) **97a:35241**
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Omel'yanov, G. A. (*with* Radkevich, E. V.; Danilov, V. G.) Stability and "stabilization" of the solution of phase field system. (English summary) **97i:35196**
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Prilepko, A. I. (*with* Kostin, A. B.) Boundary control of heat conduction. (English summary) **97i:93055**
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Stoth, Barbara E. E. Convergence of the two-phase Stefan problem to the one-phase problem. (English summary) **97m:80015**
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Szigeti, Ferenc *see* **Molnár, Sándor; et al., 97j:35060**
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— Numerical analysis for the heat flux in a mixed elliptic problem to obtain a discrete steady-state two-phase Stefan problem. (English summary) **97g:65215**
— (*with* Turner, Cristina V.) The one-phase supercooled Stefan problem with a convective boundary condition. (English summary) **97j:35166**
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Wiltshire, R. J. Perturbed Lie symmetry and systems of non-linear diffusion equations. (English summary) **97b:35015**
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— *see also* **Janno, Jaan, 97e:35198**
Xu, Long Feng A quasisteady Stefan problem with kinetic undercooling. (Chinese. English and Chinese summaries) **97g:35184**
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35K10 General theory of second-order, parabolic equations

Alkhutov, Yu. A. The behavior of solutions of parabolic second-order equations in noncylindrical domains. (Russian) **97h:35073**
Aref'ev, V. N. (*with* Bagirov, L. A.) Asymptotic behavior of solutions of the Dirichlet problem for a parabolic equation in domains with singularities. (Russian. Russian summary) **97b:35085**
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Belogurov, A. P. (*with* Dzhenaliev, M. T.; Izbasarova, S. B.) On periodic solutions of the heat equation that is loaded by the fixing of the space variable. (Russian. English, Russian and Kazakh summaries) **97j:35058**
von Below, J. Front propagation in diffusion problems on trees. **97h:35074**
Blanchard, Philippe (*with* Garbaczewski, Piotr; Olkiewicz, Robert) Non-negative Feynman-Kac kernels in Schrödinger's interpolation problem. (English summary) **97g:35061**
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Cannon, John R. (*with* Pérez Esteva, Salvador) On the continuous dependence of the solution of a linear parabolic partial differential equation on the boundary data and the solution at an interior spatial point. (English summary) **97a:35079**
Dzhenaliev, M. T. On the differential properties of solutions of loaded equations. (Russian. English, Russian and Kazakh summaries) **97k:35100**
— *see also* **Belogurov, A. P.; et al., 97j:35058**
Filippov, V. M. *see* **Kagal, A. V., 97k:35101**
Gagneux, Gérard *see* **Plouvier-Debaigt, Anne, 97h:35075**
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Izbasarova, S. B. *see* **Belogurov, A. P.; et al., 97j:35058**
Kagal, A. V. (*with* Filippov, V. M.) On an optimal domain with respect to (x, t) for a parabolic-type equation. (Russian. Russian summary) **97k:35101**
Labbas, Rabah (*with* Moussaoui, Mohand-Arezki) Sur la résolution dans les espaces $L^q(L^p)$ d'un problème parabolique à coefficients mesurables bornés. (English and French summaries) [Solution of a parabolic equation with bounded measurable coefficients in $L^q(L^p)$ spaces] **97k:35102**

Lian, Wei-Cheng (*with* Yeh, Cheh-Chih) On the asymptotic behavior of solutions of second order parabolic partial differential equations. (English summary) **97a:35080**
Ma, Jin Qian Explicit solution of the Cauchy problem for a class of higher-order linear partial differential equations with variable coefficients. (Chinese. Chinese summary) **97b:35086**
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Nishio, Masaharu Riesz capacity and regular boundary points for the parabolic operator of order α. **97b:35087**
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Pérez Esteva, Salvador *see* **Cannon, John R., 97a:35079**
Plouvier-Debaigt, Anne (*with* Gagneux, Gérard) Unicité de la solution faible d'équations des milieux poreux, via un concept de solution renormalisée. (English and French summaries) [Uniqueness of the weak solution for porous media equations via a renormalized solution notion] **97h:35075**
Poon, Chi Cheung Unique continuation for parabolic equations. **97f:35081**
Ranošová, Jarmila Characterization of sets of determination for parabolic functions on a slab by coparabolic (minimal) thinness. (English summary) **97m:35111**
Sadallah, Boubaker-Khaled Smoothness of the singularities for a parabolic equation in a polygonal domain. (Arabic. English summary) **97f:35064**
Shih, Shagi-Di A uniform solution of a parabolic problem with angular layer behavior. (English summary) **97b:35088**
Toscani, Giuseppe Kinetic approach to the asymptotic behaviour of the solution to diffusion equations. (English and Italian summaries) **97d:35088**
Wu, Dong Sheng A probabilistic solution to the Cauchy problem for the convection-diffusion equation. (Chinese)
Yau, Shing-Tung (*with* Yau, Stephen S.-T.) Explicit solution of a Kolmogorov equation. (English summary) **97f:35082**
Yau, Stephen S.-T. *see* **Yau, Shing-Tung, 97f:35082**
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Yin, Hong-Ming $\mathscr{L}^{2,a}(Q)$-estimates for parabolic equations and applications. (English summary) **97m:35112**

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Athanasiadis, Christodoulos (*with* Stratis, Ioannis G.) Parabolic and hyperbolic diffraction problems. (English summary) **97d:35224**
Auscher, Pascal (*with* Coulhon, Thierry; Tchamitchian, Philippe) Absence de principe du maximum pour certaines équations paraboliques complexes. [Absence of the maximum principle for certain complex parabolic equations] **97e:35019**
— Regularity theorems and heat kernel for elliptic operators. (English summary) **97f:35034**
Azérad, Pascal (*with* Pousin, Jérôme) Inégalité de Poincaré courbe pour le traitement variationnel de l'équation de transport. (English and French summaries) [A curved Poincaré inequality for the variational form of the advection equation] **97c:35026**
Barbu, Viorel (*with* Favini, Angelo; Romanelli, Silvia) Degenerate evolution equations and regularity of their associated semigroups. (English summary) **97m:35148**
Brown, Russell M. (*with* Shen, Zhongwei) Estimates for the Stokes operator in Lipschitz domains. (English summary) **97c:35152**
Chen, Zhen Tao Oscillation of solutions to parabolic functional-differential equations. (Chinese. English and Chinese summaries) **97i:35181**
Choulli, Mourad (*with* Yamamoto, Masahiro) An inverse parabolic problem with non-zero initial condition. (English summary) **97j:35160**
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Dubach, Eric Artificial boundary conditions for diffusion equations: numerical study. (English summary) **97c:65211**
Èĭdel'man, S. D. (*with* Porper, Frederic) Fundamental solutions of parabolic equations under large time. (English summary) (*see* **97m:00024**)
El Tawil, Magdy A. Nonhomogeneous boundary value problems. (English summary) **97c:35221**
Favini, Angelo *see* **Barbu, Viorel; et al., 97m:35148**
Kamynin, V. L. On convergence of the solutions of inverse problems for parabolic equations with weakly converging coefficients. **97i:35186**
Kostin, A. B. (*with* Prilepko, A. I.) On some problem of the reconstruction of a boundary condition for a parabolic equation. I. (Russian. Russian summary) **97j:35162**
Levine, Harold (*with* McNabb, Alex) Some unsteady diffusion and absorption problems. (English summary) **97a:80008**
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Prilepko, A. I. *see* **Kostin, A. B., 97j:35162**
Räbiger, Frank (*with* Rhandi, Abdelaziz; Schnaubelt, Roland) Perturbation and an abstract characterization of evolution semigroups. (English summary) **97h:47037**
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Sweezy, Caroline Absolute continuity for elliptic-caloric measures. (English summary) **97h:35036**
Tao, Youshan (*with* Yi, Fahuai) Classical Verigin problem as a limit case of Verigin problem with surface tension at free boundary. (English summary) **97g:35183**
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Urbas, John Lectures on second order elliptic and parabolic partial differential equations. **97d:35038**
Xie, Hong Zheng (*with* Long, Yu Dong; Li, Tong Jun) A class of two-phase free boundary value problems for parabolic equations with variable coefficients. (Chinese. English and Chinese summaries) **97i:35197**
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Yang, Yu Fei The augmented Lagrange functional method applied to the parameter identification of multidimensional parabolic equations. (Chinese. English and Chinese summaries) **97i:35188**
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Zhang, Zhen Qiu The heat kernel and a fundamental solution for a generalized sub-Laplacian operator. (Chinese. Chinese summary) **97a:35046**

35K15 Initial value problems for second-order, parabolic equations

Bainov, Drumi D. (*with* Stamova, Ivanka M.) Asymptotic equivalence of ordinary and impulsive functional-differential-difference equations.
Chang, Seung Jun *see* **Chung, Dong Myung, 97i:35065**
Che Soler, Justo *see* **López, Martín, 97f:35084**
Chung, Dong Myung (*with* Chang, Seung Jun) The partial differential equation associated to the generalized Kac-Feynman integral equation. (English summary) **97i:35065**
Denisov, V. N. On conditions for the weighted stabilization of the Poisson integral in terms of the weighted stabilization of Stieltjes means. (Russian) (*see* **97g:00017**)
Dinh Nho Hào A mollification method for a noncharacteristic Cauchy problem for a parabolic equation. (English summary) **97a:35081**
Grimaldi Piro, Anna (*with* Ragnedda, Francesco) Dirichlet problem for the heat equation in $h_c^1(d\omega)$. (English summary) **97f:35083**
Guo, Jong-Shenq Some similarity solutions for a singular diffusion equation. (English summary) **97i:35066**
Kahane, Charles S. On the initial time behavior of spatial derivatives for solutions of the parabolic Cauchy problem. (English summary) **97h:35076**
Kogut, P. Ĭ. Asymptotic analysis of controlled parabolic systems with evolution on the boundary. (Ukrainian. English summary)
López, Martín (*with* Che Soler, Justo) On the Cauchy problem for parabolic equations. (English summary) **97f:35084**
Ragnedda, Francesco *see* **Grimaldi Piro, Anna, 97f:35083**
Repnikov, V. D. On the stabilization of solutions of parabolic equations with an elliptic part in divergence form. (Russian. Russian summary) **97a:35082**
Stamova, Ivanka M. *see* **Bainov, Drumi D.**

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Carmona, René A. (*with* Viens, Frederi. G.; Molchanov, S. A.) Sharp upper bound on the almost-sure exponential behavior of a stochastic parabolic partial differential equation. (English summary) **97d:60103**
Demoulini, Sophia Young measure solutions for a nonlinear parabolic equation of forward-backward type. (English summary) **97a:35096**
Hoang Dinh Dung (*with* Nguyen Cong Dieu) On the problem of air pollution. (English summary) **97j:35151**
Kokhman'ski, S. On the evolution operators for some equations of mathematical physics with variable coefficients. (English summary) **97i:35177**
Kozlov, Sergeĭ Mikhaĭlovich (*with* Pyatnitskiĭ, A. L.) Degeneration of effective diffusion in the presence of periodic potential. (English and French summaries) **97h:35013**
Milani, Albert Global existence via singular perturbations for quasilinear evolution equations. (English summary) **97k:35175**
Molchanov, S. A. *see* **Carmona, René A.; et al., 97d:60103**
Nguyen Cong Dieu *see* **Hoang Dinh Dung, 97j:35151**
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Wyler, Andreas Feedback stabilization of a marginally stable parabolic equation and a counterexample to a conjecture on this topic. (English summary) **97b:93083**
Zhan, Yi The Bernstein estimates of viscosity solutions of linear parabolic equations. (English summary) **97h:35025**

35K20 Boundary value problems for second-order, parabolic equations

Apushkinskaya, D. E. (*with* Nazarov, A. I.) Boundary estimates for the first-order derivatives of a solution to a nondivergent parabolic equation with composite right-hand side and coefficients of lower-order derivatives. (English summary) **97a:35083**
Arkhipova, A. A. (*with* Ural'tseva, N. N.) Sharp estimates for solutions of a parabolic Signorini problem. **97a:35084**
Athanasopoulos, I. (*with* Caffarelli, Luis A.; Salsa, S.) Caloric functions in Lipschitz domains and the regularity of solutions to phase transition problems. **97e:35074**
Benouar, Nour-Eddine *see* **Bouziani, Abdelfatah, 97f:35085**
Bouziani, Abdelfatah (*with* Benouar, Nour-Eddine) Problème mixte avec conditions intégrales pour une classe d'équations paraboliques. (English and French summaries) [Mixed problem with integral conditions for certain parabolic equations] **97f:35085**
Brown, Russell M. (*with* Hu, Wei; Lieberman, Gary M.) Weak solutions of parabolic equations in non-cylindrical domains. (English summary) **97g:35062**
Caffarelli, Luis A. *see* **Athanasopoulos, I.; et al., 97e:35074**
Egorov, Yurii Vladimirovich (*with* Kondrat'ev, Vladimir Aleksandrovich) On blow-up solutions for parabolic equations of second order. (English summary) (*see* **97m:00024**)
Gao, Wenjie Boundary value problems for parabolic equations on Lipschitz cylinders with $L^{p,q}$ boundary data. (English and Chinese summaries) **97f:35086**
Heurteaux, Yanick Mesure harmonique et équation de la chaleur. [Harmonic measure and the heat equation] **97k:35103**

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Khapalov, A. Yu. On unique continuation of solutions of the parabolic equation from a curve. (English summary) **97k:35104**
Kondraciuk, Narcyz Poincaré parabolic problem for the half-unbounded strip. (Polish summary) (*see* **97m:35004**)
Kondrat'ev, Vladimir Aleksandrovich *see* **Egorov, Yurii Vladimirovich, (97m:00024)**
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Lieberman, Gary M. *see* **Brown, Russell M.; et al., 97g:35062**
Mil'shtein, G. N. Solution of the first boundary value problem for equations of parabolic type by means of the integration of stochastic differential equations. (Russian. Russian summary) **97f:35087**
Mueller, Carl Singular initial conditions for the heat equation with a noise term. (English summary) **97c:35077**
Murata, Minoru Nonuniqueness of the positive Dirichlet problem for parabolic equations in cylinders. (English summary) **97a:35085**
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Stoyan, Yu. G. (*with* Yaremchuk, S. I.; Kryzhanovskiĭ, V. B.) Differentiability of a field of discrete sources with respect to their distribution parameters. (Russian. English summary) **97a:35086**
Tersenov, S. A. On the first boundary value problem for a parabolic equation with changing time direction. (Russian) **97d:35089**
Ural'tseva, N. N. *see* **Arkhipova, A. A., 97a:35084**
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Zajęcka, Marta The contact problem for two tangent strips. (Polish summary) (*see* **97m:35004**)

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Barański, Feliks (*with* Pieniążek, Alicja) The limit parabolic problem for semi-curvilinear trapezium with Neumann boundary condition. (Polish summary) (*see* **97m:35004**)
— (*with* Pieniążek, Alicja) The limit problem for the system of the parabolic equations for curvilinear trapezium and Neumann boundary data. (Polish summary) (*see* **97m:35004**)
Chan, Chiu Yeung (*with* Chen, Ching Shyang) Method of fundamental solutions for multi-dimensional quenching problems. (English summary) **97m:35008**
Chen, Ching Shyang *see* **Chan, Chiu Yeung, 97m:35008**
Choulli, Mourad (*with* Yamamoto, Masahiro) Generic well-posedness of an inverse parabolic problem—the Hölder-space approach. (English summary) **97k:35267**
Day, W. A. ★ Entropy and partial differential equations. (English summary) **97h:35179**
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Dinh Nho Hào (*with* Reinhardt, H.-J.) On a sideways parabolic equation. (English summary) **97m:35273**
Fraile Peláez, José María (*with* Koch Medina, Pablo; López-Gómez, Julián; Merino, Sandro) Elliptic eigenvalue problems and unbounded continua of positive solutions of a semilinear elliptic equation. (English summary) **97b:35036**
Grimaldi Piro, Anna (*with* Ragnedda, Francesco) Dirichlet problem for the heat equation in $h^1_c(d\omega)$. (English summary) **97f:35083**
Haroten, H. A. Some condition of ρ-stability and the non-oscillation of the linear parabolic problem. **97m:65174**
Hieber, Matthias Heat kernel estimates and analytic semigroups on L^1 spaces. **97h:47034**
Hofmann, Steve (*with* Lewis, John L.) L^2 solvability and representation by caloric layer potentials in time-varying domains. (English summary) **97h:35072**
Ionkin, N. I. (*with* Valikova, E. A.) The maximum principle for a nonlocal nonselfadjoint boundary value problem. (Russian. Russian summary) **97m:65156**
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Liskevich, Vitali On C_0-semigroups generated by elliptic second order differential expressions on L^p-spaces. (English summary) **97i:47091**
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35K22 Evolution equations (any order in the spatial derivatives) [see also 58D25]

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Bourgain, Jean Harmonic analysis and nonlinear partial differential equations. **97f:35088**
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Gawinecki, J. (*with* Ortner, Norbert; Wagner, Peter[2]) On the fundamental solution of the operator of dynamic linear thermodiffusion. (English summary) **97j:35148**
Goldstein, Gisèle Ruiz (*with* Goldstein, Jerome A.; Obrecht, Enrico) Structure of solutions to linear evolution equations: extensions of d'Alembert's formula. (English summary) **97e:47063**
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Obrecht, Enrico *see* **Goldstein, Gisèle Ruiz; et al., 97e:47063**
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Struwe, Michael The Yang-Mills flow in four dimensions. (English summary) **97i:58034**
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35K25 General theory of higher-order, parabolic equations

Barbatis, Gerassimos (*with* Davies, E. B.) Sharp bounds on heat kernels of higher order uniformly elliptic operators. (English summary) **97k:35105**
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Bujakiewicz-Korońska, Renata Physical models for the polyparabolic equations. (Polish summary) (*see* **97m:35004**)
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Èĭdel'man, S. D. (*with* Porper, Frederic) Fundamental solutions of parabolic equations under large time. (English summary) (*see* **97m:00024**)
Fujita-Yashima, Hisao (*with* Benabidallah, Rachid) Sur une classe d'équations du type parabolique linéaires. (English summary) [On a class of linear parabolic equations] **97c:35078**
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Gagnidze, A. G. Uniqueness classes for solutions of the Cauchy problem for higher-order parabolic equations with unbounded coefficients. II. (Russian. English and Georgian summaries) **97m:35113**
Orynbasarov, M. Potentials for a loaded biparabolic equation and their applications. (Russian. English, Russian and Kazakh summaries) **97m:35114**
Pinchover, Yehuda On uniqueness and nonuniqueness of the positive Cauchy problem for parabolic equations with unbounded coefficients. **97j:35059**

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Filar, Maria (*with* Szałajko, Krystyna) On the three-parabolic problem for some angular time-spatial domains of E_{n+1}. (Polish summary) (*see* **97m:35004**)
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— Biparabolic problem for the strip and for the boundary conditions of Poincaré type. (Polish summary) (*see* **97m:35004**)
Kim, Sun Ho[1] (*with* Pak, Ryŏn Ho) Existence of a solution for a higher-order boundary value problem of a higher-order parabolic equation in a semi-infinite interval with variable bounds. (Korean. English summary)
Koroński, Jan The polyparabolic problem for the quart time plane with boundary conditions of Lauricella type. (Polish summary) (*see* **97m:35004**)
— The polyparabolic problem for the strip with boundary conditions of Lauricella type. (Polish summary) (*see* **97m:35004**)
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— (*with* Motyl, Elżbieta) The biparabolic limit problem for the strip with the boundary conditions of the third kind. (Polish summary) (*see* **97m:35004**)
— (*with* Skóra, Lidia) The limit problem for the equation $D_x^4 D_t^2 (D_x^2 - D_t)u = f$ for the strip. (Polish summary) (*see* **97m:35004**)
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Matîichuk, M. Î. On a nonlocal parabolic boundary value problem. (Ukrainian. English and Ukrainian summaries) **97d:35091**

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Laurençot, Philippe Long-time behaviour for a model of phase-field type. (English summary) **97a:35115**

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Rud', I. I. Solvability of a model Cauchy problem for parabolic systems in spaces of generalized functions. (Russian. English, Russian and Moldavian summaries) **97e:35075**

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— Application of monotone iterative method to a system of parabolic semilinear functional-differential problems with nonlocal conditions. **97k:35262**

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— (*with* Roynette, Bernard; Vallois, Pierre) Asymptotic estimates of solutions of $u_t - \frac{1}{2}\Delta u = -\lvert\nabla u\rvert$ in $\mathbf{R}_+ \times \mathbf{R}^d$, $d \geq 2$. (English summary) **97m:35118**

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Nagasawa, Takeyuki (*with* Tachikawa, Atsushi) Existence and asymptotic behavior of weak solutions to semilinear hyperbolic systems with damping terms. **97f:35123**

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Callegari, Emanuele (*with* Manfrin, Renato) Global existence for nonlinear hyperbolic systems of Kirchhoff type. (English summary) **97j:35088**

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— (*with* Guerra, Graziano) Shift-differentiability of the flow generated by a conservation law. (English summary) **97f:35108**
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Kouémou Patcheu, Solange ★ Stabilisation interne de certains systèmes distribués semi-linéaires. (French. French summary) [Internal stabilization of certain semilinear distributed systems] **97c:93066**

Lakshmanan, M. *see* **Radha, R., 97m:35234**

Li, Shu Jie (*with* Szulkin, Andrzej) Periodic solutions for a class of nonautonomous wave equations. **97i:35007**

Lin, Yi Mou The sine-Gordon equation and surfaces of negative curvature. (Chinese. English and Chinese summaries) **97k:53004**

Liu, An Ping Oscillation of solutions to some nonlinear hyperbolic delay differential equations with damping terms. (Chinese. Chinese summary)

Liu, Bin[2] Oscillation of neutral nonlinear hyperbolic equations with doubled variable coefficients. (English summary) **97k:35264**

Liu, Xinzhi (*with* Fu, Xi Lin) Oscillation criteria for nonlinear inhomogeneous hyperbolic equations with distributed deviating arguments. (English summary) **97b:35183**

Machedon, Matei *see* **Klainerman, Sergiu, 97h:35022**

Mann, Erich F. The perturbed sine-Gordon breather equation integrated by Riemann's method. (English summary) **97f:35190**

Marko, P. V. On the ten classes of scale-invariant nonlinear wave equations for vector fields. (English summary) **97b:35012**

— *see also* **Zhdanov, R. Z.; et al., 97e:35011**

McLaughlin, David W. Whiskered tori and chaotic behavior in nonlinear waves. **97e:58206**

Milani, Albert Erratum: "Long time existence and singular perturbation results for quasilinear hyperbolic equations with small parameter and dissipation term. III" [Nonlinear Anal. **16** (1991), no. 1, 1–11; MR 91m:35050]. **97c:35017**

Minchev, Emil *see* **Bainov, Drumi D., 97e:35148**

Muñoz Rivera, Jaime E. Global solution and regularizing properties on a class of nonlinear evolution equation. (English summary) **97f:35212**

Novokshenov, V. Yu. The "breather-train" solution of the sine-Gordon equation with the "periodic wave-zero" boundary conditions. (English summary) **97i:35156**

— Dynamics of the Whitham zone of the real solution of the sine-Gordon equation with finite-gap boundary conditions. (Russian. Russian summary) **97m:35230**

Papageorgiou, Nikolaos S. Existence of solutions for second-order evolution inclusions. (English summary) **97c:34129**

Petrescu, Delvy M. Time decay of solutions of coupled Maxwell-Klein-Gordon equations. (English summary) **97e:58218**

Pöschel, Jürgen Some recent results concerning quasi-periodic solutions for a nonlinear string equation. (English summary) **97g:58156**

Povzner, A. Yu. A method for finding asymptotic solutions of certain partial differential equations containing a small parameter. (English summary) **97m:35032**

Qu, Chao Chun *see* **Dai, Zheng De; et al., 97f:47058**

Radha, R. (*with* Lakshmanan, M.) The $(2+1)$-dimensional sine-Gordon equation; integrability and localized solutions. (English summary) **97m:35234**

Rionero, Salvatore Stability results for hyperbolic and parabolic equations. (English summary) **97h:35018**

Roy Chowdhury, A. *see* **Ghose, Chandana, 97d:58207**

Russo, Francesco *see* **Alberverio, Sergio; et al., 97j:60112**

Shubov, V. I. *see* **Banks, H. T.; et al., 97j:34083**

Smirnov, A. O. Real elliptic solutions of equations related to the sine-Gordon equation. (Russian) **97e:35164**

Sokil, B. I. On the construction of asymptotic approximations for a nonautonomous wave equation. (Russian. English and Ukrainian summaries) **97a:35023**

Souplet, Philippe Uniqueness and nonuniqueness results for the antiperiodic solutions of some second-order nonlinear evolution equations. **97f:34041**

Steyt, Y. (*with* Christov, C. I.; Velarde, M. G.) Solitary-wave solutions of a generalized wave equation with higher-order dispersion. (English summary) (*see* **97k:73002**)

Szulkin, Andrzej *see* **Li, Shu Jie, 97i:35007**

Van Der Burgh, Adriaan H. P. *see* **Blom, C. J., 97b:35016**

Vàzquez, L. V. *see* **Cunha, M. D.; et al., 97d:35187**

Velarde, M. G. *see* **Steyt, Y.; et al., (97k:73002)**

Vityuk, A. N. Continuous dependence of the R-solution generated by a hyperbolic-type differential inclusion on the parameters. (Russian. English and Ukrainian summaries) **97h:35245**

Xu, Zhen Yuan[2] *see* **Cai, Ri Zeng, 97f:35182**

Yan, Chuntao A simple transformation for nonlinear waves. (English summary) **97i:35161**

Yoshizawa, Taro Attractivity in nonautonomous equations by Liapunov's method. (English summary) (*see* **97a:00029**)

Zhang, Liqin (*with* Fu, Xi Lin) Forced oscillation for a class of nonlinear delay hyperbolic equations. (English summary) **97i:35182**

Zhdanov, R. Z. (*with* Fushchich, V. I.; Marko, P. V.) New scale-invariant nonlinear differential equations for a complex scalar field. (English summary) **97e:35011**

Zhou, Sheng Fan The dimension of the global attractor for the damped sine-Gordon equation. (Chinese. English and Chinese summaries) **97k:35234**

Zima, Mirosława *see* **Bugajewski, Dariusz, 97k:35260**

35L75 Nonlinear hyperbolic PDE of higher (> 2) order

Chen, Shuxing Cauchy problem for a class of semilinear hyperbolic equations with Y-shape discontinuous data. (English summary) **97e:35116**

Cicognani, Massimo (*with* Zanghirati, Luisa) Propagation of analytic and Gevrey regularity for a class of semi-linear weakly hyperbolic equations. **97a:35161**

Fushchich, V. I. (*with* Roman, O. V.; Zhdanov, R. Z.) Symmetry reduction and some exact solutions of nonlinear biwave equations. (English summary) **97e:35117**

Raid, Al-Momani The necessary and sufficient conditions of the axially-weakened classical solution of the third mixed problem for three-dimensional hyperbolic equations of random even order. (English summary) **97k:35177**

Roman, O. V. Symmetry analysis of the multidimensional polywave equation. (English summary) **97b:35131**

— *see also* **Fushchich, V. I.; et al., 97e:35117**
Spagnolo, Sergio Propagation of real analyticity for weakly hyperbolic equations. **97k:35178**
Yuryk, I. I. Reduction and some exact solutions of the multidimensional Liouville equation. (English summary) (*see* **97b:00013**)
Zanghirati, Luisa *see* **Cicognani, Massimo, 97a:35161**
Zhdanov, R. Z. *see* **Fushchich, V. I.; et al., 97e:35117**

Items with secondary classifications in 35L75

Tataru, Daniel The X_p^s spaces and unique continuation for solutions to the semilinear wave equation. (English summary) **97i:35012**

35L80 Hyperbolic PDE of degenerate type

Khairullin, R. S. A Cauchy-type problem for the Euler-Poisson-Darboux equation. (Russian)
Yagdzhyan, K. A. Fundamental solution of the Cauchy problem for hyperbolic operators with multiple characteristics. (Russian. English and Russian summaries) **97a:35162**
Zhou, Yi Low regularity solutions for linearly degenerate hyperbolic systems. **97a:35163**

Items with secondary classifications in 35L80

Bai, Qi Zheng *see* **Qin, Hui Zeng, 97m:35160**
Ferreira, Jorge (*with* Lar'kin, N. A.) On regular solutions of nonlinear degenerating hyperbolic equations in noncylindrical domains. (*see* **97c:00039**)
Huang, Feimin (*with* Li, Caizhong; Wang, Zhen) Solutions containing delta-waves of Cauchy problems for a nonstrictly hyperbolic system. (English summary) **97d:35133**
Kapustin, N. Yu. On the theory of the generalized parabolic-hyperbolic heat equation. (Russian. Russian summary) **97m:35185**
Lar'kin, N. A. *see* **Ferreira, Jorge, (97c:00039)**
Li, Caizhong *see* **Huang, Feimin; et al., 97d:35133**
Maklakov, S. G. *see* **Volkodavov, V. F., 97j:45003**
Manfrin, Renato Local solvability in C^∞ for quasi-linear weakly hyperbolic equations of second order. (English summary) **97k:35172**
— Analytic regularity for a class of semi-linear weakly hyperbolic equations of second order. (English summary) **97m:35179**
Ni, Xing Tang Boundary value problems of a class of third-order mixed equations and hyperbolic equations with variable coefficients. (Chinese. English and Chinese summaries)
Qin, Hui Zeng (*with* Bai, Qi Zheng) The incomplete Huygens phenomenon and the discrete phenomenon for a class of EPD equations. (Chinese. English and Chinese summaries) **97m:35160**
Qu, Chao Chun (*with* Xie, Cheng Kang) The Cauchy problem for a class of equations with multiple characteristics. (Chinese. English and Chinese summaries) **97m:35007**
Reissig, Michael (*with* Yagdzhyan, K. A.) On the Cauchy problem for quasilinear weakly hyperbolic equations with time degeneration. (Russian. English and Russian summaries) **97a:35157**
de Souza, A. J. Wave structure for a nonstrictly hyperbolic system of three conservation laws. (English summary) **97g:76090**
Spagnolo, Sergio Propagation of real analyticity for weakly hyperbolic equations. **97k:35178**
Taglialatela, G. (*with* Vaillant, Jean Léon) Conditions invariantes d'hyperbolicité des systèmes et réduction des systèmes. (English and French summaries) [Invariant hyperbolicity conditions for systems and reduction of systems] **97d:35130**
Vaillant, Jean Léon *see* **Taglialatela, G., 97d:35130**
Virchenko, Nina (*with* Zarubin, A. N.) On the Cauchy and Darboux problems for a differential-difference degenerative hyperbolic equation. (Ukrainian summary) **97m:35267**
Volkodavov, V. F. (*with* Maklakov, S. G.) An inversion formula for a Volterra equation of the first kind and its application. (Russian) **97j:45003**
Wang, Zhen *see* **Huang, Feimin; et al., 97d:35133**
Xie, Cheng Kang *see* **Qu, Chao Chun, 97m:35007**
Yagdzhyan, K. A. *see* **Reissig, Michael, 97a:35157**
Zarubin, A. N. *see* **Virchenko, Nina, 97m:35267**

35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

Frota, Cicero Lopes (*with* Lar'kin, N. A.) On global existence and uniqueness for the unilateral problem associated to the degenerated Kirchhoff equation. **97k:35179**
Lar'kin, N. A. *see* **Frota, Cicero Lopes, 97k:35179**

Items with secondary classifications in 35L85

Rakesh Some results on inverse obstacle problems for the wave equation. **97d:35247**

35L99 None of the above, but in this section

Gao, Fan The characteristic problem for inhomogeneous ultrahyperbolic equations. (Chinese. English and Chinese summaries) **97m:35183**
Ren, Liu Cheng Generalized global solutions to initial-boundary value problems for nonlinear pseudohyperbolic equations. (Chinese. English and Chinese summaries)
Yang, Xiao Zhong *see* **Zhang, Quan De, 97e:35118**
Zhang, Quan De (*with* Yang, Xiao Zhong) Global solutions of pseudohyperbolic equations. (Chinese. English and Chinese summaries) **97e:35118**
Zhu, Qian The problem of existence and uniqueness of solutions to ultrahyperbolic equations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 35L99

Croc, Elisabeth (*with* Dermenjian, Yves) Spectral analysis of a multistratified acoustic strip. II. Asymptotic behavior of solutions for a simple stratification. (English summary) **97h:35173**
Dermenjian, Yves *see* **Croc, Elisabeth, 97h:35173**
Dobrev, V. K. Subsingular vectors and conditionally invariant (q-deformed) equations. (English summary) **97e:81074**
Do-Duc, Hung Global existence of elastic waves in nonlinear elastodynamics. (English summary) **97m:35248**
Donato, Andrea (*with* Oliveri, Francesco) How to build up variable transformations allowing one to map nonlinear hyperbolic equations into autonomous or linear ones. (English summary) **97e:35008**
Flato, Moshé (*with* Simon, Jacques C. H.; Taflin, Erik) Asymptotic completeness, global existence and the infrared problem for the Maxwell-Dirac equations. (English summary) **97j:35131**
Goncharenko, Yu. V. Optimal impulse control of hyperbolic systems. (Russian. English and Ukrainian summaries) **97f:49007**
Isakov, Victor On uniqueness in a lateral Cauchy problem with multiple characteristics. **97m:35005**
Komech, A. I. On transitions to stationary states in some infinite-dimensional Hamiltonian systems. (Russian) **97e:58205**
Korotkii, A. I. (*with* Tsepelev, I. A.) Dynamic solution of an inverse problem of determining the parameters in a Goursat-Darboux system. (Russian. English and Russian summaries) **97d:35244**
Luo, Tao Global smooth solutions to the Cauchy problem for a viscous heat-conductive one-dimensional real gas. (English summary) **97h:35223**
Mainardi, Francesco The time fractional diffusion-wave equation. (English summary) **97i:35098**
Oliveri, Francesco *see* **Donato, Andrea, 97e:35008**
Ostkamp, Stella ★ Multidimensional characteristic Galerkin schemes and evolution operators for hyperbolic systems. (English and German summaries) **97e:65098**
Rosa, Ricardo (*with* Temam, Roger) Inertial manifolds and normal hyperbolicity. (English summary) **97g:58029**
Simon, Jacques C. H. *see* **Flato, Moshé; et al., 97j:35131**
Struwe, Michael Geometric evolution problems. **97e:58057**
Taflin, Erik *see* **Flato, Moshé; et al., 97j:35131**
Temam, Roger *see* **Rosa, Ricardo, 97g:58029**
Tsepelev, I. A. *see* **Korotkii, A. I., 97d:35244**
Zheng, Songmu ★ Nonlinear parabolic equations and hyperbolic-parabolic coupled systems. (English summary) **97g:35078**
Zheng, Yong Shu Global smooth solutions to the adiabatic gas dynamics system with dissipation terms. (English summary) **97k:35213**

35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Akbarova, S. Kh. *see* **Islomov, B. I.**
Bénilan, Philippe (*with* Wittbold, Petra) On mild and weak solutions of elliptic-parabolic problems. (English summary) **97e:35119**
Berdyshev, A. S. (*with* Tolzhanova, G. D.) A boundary value problem with a directional derivative for a parabolic-hyperbolic equation in a domain with deviation from the characteristic. (Russian. English, Russian and Kazakh summaries) **97m:35184**
Bulatov, A. V. Existence and uniqueness of a strong solution of the Darboux problem. (Russian. Russian summary) **97i:35124**
Dzhuraev, T. D. (*with* Kadyrov, R. R.) On the behavior of solutions of nonlocal boundary value problems for an elliptic-parabolic equation in a neighborhood of a nonregular boundary point. (Russian. English and Uzbek summaries)
Eleev, V. A. Boundary value problems for a loaded hyperbolic-parabolic equation with a characteristic line of change of type. (Russian. English and Ukrainian summaries) **97c:35140**
— A boundary value problem for a third-order mixed equation of parabolic-hyperbolic type. (Russian. English and Ukrainian summaries) **97f:35146**
Fayazov, K. S. An ill-posed boundary value problem for a second-order equation of mixed type. (Russian. English and Uzbek summaries)
Ferreira, Jorge On weak solutions of a nonlinear hyperbolic-parabolic partial differential equation. (English and Portuguese summaries) **97d:35153**
— (*with* Lar'kin, N. A.) Global solvability of a mixed problem for a nonlinear hyperbolic-parabolic equation in noncylindrical domains. (English summary) **97j:35105**
— *see also* **Maciel, A. B., 97h:35166**
Ganser, G. H. (*with* Hu, Xiaoping; Li, Dening) Solutions for a two-dimensional hyperbolic-elliptic coupled system. (English summary) **97k:35180**
Han, Yongqian *see* **Sun, Hesheng, 97h:35168**
Hu, Xiaoping *see* **Ganser, G. H.; et al., 97k:35180**
Iida, Masato Asymptotic behavior of radial solutions to an elliptic-parabolic system with nonlinear boundary conditions. **97g:35116**
Islomov, B. I. Local and nonlocal boundary value problems for an equation of mixed type with two interior lines of degeneracy. (Russian. English and Uzbek summaries) **97h:35164**
— (*with* Akbarova, S. Kh.) Boundary value problems for an equation of parabolic-hyperbolic type with two lines and different orders of degeneracy inside the domain. (Russian. English and Uzbek summaries)
Isyangil'din, A. Kh. *see* **Sabitov, K. B., 97j:35106**
Kadirov, F. È. A problem for a semilinear parabolic-hyperbolic equation. (Russian. English and Uzbek summaries)
Kadyrov, R. R. *see* **Dzhuraev, T. D.**
Kapustin, N. Yu. On the theory of the generalized parabolic-hyperbolic heat equation. (Russian. Russian summary) **97m:35185**
Karimov, Sh. T. A nonlocal problem with a normal derivative for an equation of mixed type in a doubly connected domain. (Russian. English and Uzbek summaries) **97h:35165**

Khaĭrullin, R. S. The Tricomi problem for a system of second-order equations. (Russian. Russian summary) **97c:35141**
— The Tricomi problem for an equation with singular coefficients. (Russian) **97m:35186**
Khashimov, A. R. On a problem for an equation of mixed type with multiple characteristics. (Russian. English and Uzbek summaries)
Kilbas, A. A. *see* **Saigo, Megumi; et al., 97k:35182**
Lar'kin, N. A. (*with* Schneider, Manfred Friedrich) Uniqueness theorems for a nonlinear Tricomi problem and the related evolution problem. (English summary) **97b:35132**
— Construction of approximate solutions to the Tricomi problem. (English summary) **97k:35181**
— *see also* **Ferreira, Jorge, 97j:35105**
Li, Dening *see* **Ganser, G. H.; et al., 97k:35180**
Maciel, A. B. (*with* Ferreira, Jorge) Decay of solutions of some nonlinear hyperbolic-parabolic equations. (English summary) **97h:35166**
Moiseev, E. I. Solvability of a nonclassical boundary value problem with the second boundary condition on the boundary in the class of odd functions. (Russian. Russian summary) **97h:35167**
Ni, Xing Tang Boundary value problems of a class of third-order mixed equations and hyperbolic equations with variable coefficients. (Chinese. English and Chinese summaries)
Otto, Felix L^1-contraction and uniqueness for quasilinear elliptic-parabolic equations. (English summary) **97i:35125**
Ovezova, M. M. On the uniqueness of the solution of the Gellerstedt problem for a general system of Chaplygin equations. (Russian) **97e:35120**
Pardis, Cyrus J. A boundary value problem for a system of equations of mixed hyperbolic-elliptic type. (English summary) **97a:35164**
Paskalev, G. P. Nonlocal boundary value problem for a high order PDE of mixed type with a parameter. (English summary) **97f:35147**
— Smooth solutions of nonlocal boundary value problem for a high order partial differential equation of mixed type with a parameter. (English summary) **97f:35148**
— Nonlocal boundary value problem for a class of high order hyperbolic-parabolic partial differential equations. (English summary)
Payne, Kevin R. Interior regularity of the Dirichlet problem for the Tricomi equation. (English summary) **97d:35154**
Petrov, Vassil G. A boundary value problem with discontinuous gluing for a hyperbolic-parabolic equation. (Bulgarian. English, Russian and Bulgarian summaries)
Repin, O. A. On a problem with M. Saigo operators on characteristics for the moisture-transfer equation. (Russian) (*see* **97g:00017**)
— The Tricomi problem for an equation of mixed type in a domain whose elliptic part is a half-strip. (Russian. Russian summary) **97i:35126**
— *see also* **Saigo, Megumi; et al., 97k:35182** *and* **Virchenko, Nina, 97m:35187**
Sabitov, K. B. (*with* Isyangil'din, A. Kh.) A Tricomi problem with a nonlocal conjugation condition for the generalized Tricomi equation. (Russian. Russian summary) **97j:35106**
Saigo, Megumi (*with* Repin, O. A.; Kilbas, A. A.) On a non-local boundary value problem for an equation of mixed parabolic-hyperbolic type. (English summary) **97k:35182**
Schneider, Manfred Friedrich *see* **Lar'kin, N. A., 97b:35132**
Shirokova, A. Yu. Boundary value problems for partial differential equations with strong degeneration. (Russian. Russian summary) **97j:35107**
Spirova, Svetla Strong solvability of a boundary value problem for an equation of mixed type. (English summary) **97d:35155**
Sun, Hesheng (*with* Han, Yongqian) On a maximum principle and uniqueness theorems for a system of first order equations of mixed type. (English summary) **97h:35168**
Sweers, Guido A noncooperative mixed parabolic-elliptic system and positivity. (English and Italian summaries) **97b:35133**
Tolzhanova, G. D. *see* **Berdyshev, A. S., 97m:35184**
Usanetashvili, M. A. The Poincaré problem for an equation of mixed type. (Russian. English and Georgian summaries)
Virchenko, Nina (*with* Repin, O. A.) On Darboux's problem for the weighed Gellerstedt's equation. (Ukrainian summary) **97m:35187**
Wittbold, Petra *see* **Bénilan, Philippe, 97e:35119**

Items with secondary classifications in 35M10

Asrakulova, D. S. The Cauchy-Stefan problem for a parabolic-hyperbolic equation. (Russian. English and Uzbek summaries)
Avalos, George The exponential stability of a coupled hyperbolic/parabolic system arising in structural acoustics. (English summary) **97b:93047**
Chen, Shuxing Linear approximation of shock reflection at a wedge with large angle. **97f:35136**
Kadyrov, R. R. On the behavior of generalized solutions of nonlocal boundary value problems for elliptic-parabolic equations in a neighborhood of a boundary point. (Russian. English, Russian and Uzbek summaries)
Kornienko, V. V. On the spectra of strongly irregular equations. (Russian. Russian summary) **97k:47058**
Li, Shuanhu Global existence for a semilinear differential system. (English summary) **97b:35052**
Liu, Tai-Ping (*with* Zeng, Yanni) Large time behavior of solutions for general quasilinear hyperbolic-parabolic systems of conservation laws. (English summary) **97g:35107**
Maitre, E. (*with* Witomski, P.) Nonlinear elliptic-parabolic equations and B-pseudomonotonicity. (English summary) **97i:34089**
Witomski, P. *see* **Maitre, E., 97i:34089**
Yao, Miaoxin Positive entire solutions to singular semilinear elliptic equations of mixed type. (English and Chinese summaries) **97m:35072**
Zarubin, A. N. An analogue of the Tricomi problem for an equation of mixed type with retarded argument. (Russian. Russian summary) **97j:35156**
— On some initial-boundary value problems for a differential-difference equation of mixed type. (Russian) **97b:35185**
Zeng, Yanni *see* **Liu, Tai-Ping, 97g:35107**
Zheng, Songmu ★ Nonlinear parabolic equations and hyperbolic-parabolic coupled systems. (English summary) **97g:35078**

35M20 PDE of composite type

Benouar, Nour-Eddine (*with* Bougoffa, Lazhar) Analyse mathématique: problèmes aux limites pour une classe d'équations composites du quatrième ordre. (English and French summaries) [Mathematical analysis: boundary value problems for a class of fourth-order composite equations] **97h:35169**
Bougoffa, Lazhar *see* **Benouar, Nour-Eddine, 97h:35169**
Demidenko, G. V. L_p-theory of boundary value problems for equations of Sobolev type. (English summary) **97d:35156**
Gaziev, K. S. Boundary value problems for a fourth-order equation of mixed-composite type. (Russian. English and Uzbek summaries) **97i:35127**
Koziev, A. On a boundary value problem with shift for a system of three first-order equations of composite type. (Russian. Russian and Tajiki summaries) **97e:35142**
Uspenskiĭ, S. V. (*with* Vasil'eva, E. N.) Qualitative investigation of the solution of a problem of S. L. Sobolev as $t \to \infty$. (Russian) **97m:35188**
Vasil'eva, E. N. *see* **Uspenskiĭ, S. V., 97m:35188**

Items with secondary classifications in 35M20

Giovangigli, Vincent (*with* Massot, Marc) Les mélanges gazeux réactifs. I. Symétrisation et existence locale. (English and French summaries) [Multicomponent reactive gas flows. I. Symmetrization and local existence] **97j:76050**
— (*with* Massot, Marc) Les mélanges gazeux réactifs. II. Stabilité asymptotique des états d'équilibre. (English and French summaries) [Multicomponent reactive gas flows. II. Asymptotic stability of equilibrium states] **97j:76051**
Krutitskii, Pavel A. An explicit solution of the pseudo-hyperbolic initial-boundary value problem in a multiply connected region. (English summary) **97d:76010a**
— Erratum: "An explicit solution of the pseudo-hyperbolic initial-boundary value problem in a multiply connected region". **97d:76010b**
Martínez-Gamba, Irene (*with* Morawetz, Cathleen S.) A viscous approximation for a 2-D steady semiconductor or transonic gas dynamic flow: existence theorem for potential flow. (English summary) **97g:35169**
Massot, Marc *see* **Giovangigli, Vincent, 97j:76050** *and* **97j:76051**
Morawetz, Cathleen S. *see* **Martínez-Gamba, Irene, 97g:35169**
Yeh, Li-Ming Well-posedness of the hydrodynamic model for semiconductors. (English summary) **97k:35251**
Zdunkiewicz, Zbigniew The limit problem for the equation $PLu = f$. (Polish summary) (*see* **97m:35004**)

35M99 None of the above, but in this section

Items with secondary classifications in 35M99

Benouar, Nour-Eddine *see* **Bouziani, Abdelfatah, 97k:35031**
Bouziani, Abdelfatah (*with* Benouar, Nour-Eddine) Problème aux limites pour une classe d'équations de type non classique pour une structure pluri-dimensionnelle. (English summary) [Boundary value problem for a class of nonclassical equations for a multidimensional structure] **97k:35031**

35Nxx Overdetermined systems [see also 58G05, 58G07, 58Hxx]

35N05 Overdetermined systems with constant coefficients

Items with secondary classifications in 35N05

Borzymowski, Andrzej A Goursat-type problem for a high order partial differential equation. **97h:35137**
Dzhuraev, A. D. On Riemann-Hilbert boundary problem in several complex variables. (English summary) **97i:32007**
Ebenfelt, Peter Polynomial modules and a generalized Cauchy problem for systems of holomorphic partial differential operators. (English summary) **97c:35003**

35N10 Overdetermined systems with variable coefficients (general)

Dudnikov, P. I. (*with* Samborskiĭ, S. N.) Linear overdetermined systems of partial differential equations. Initial and initial-boundary value problems [MR 92m:35188]. (*see* **97b:35002**)
Gorbuzov, V. N. On integrals and last multipliers of multidimensional differential systems with symmetries. (Russian. English and Russian summaries) **97f:35149**
Kakié, Kunio Uniqueness and pseudo-convexity in the Cauchy problem for an overdetermined system of partial differential equations. **97h:35170**
Nacinovich, Mauro (*with* Shlapunov, A. A.) On iterations of the Green integrals and their applications to elliptic differential complexes. (English summary) **97h:35171**
Samborskiĭ, S. N. *see* **Dudnikov, P. I., (97b:35002)**
Shlapunov, A. A. *see* **Nacinovich, Mauro, 97h:35171**
Treves, François Integrability of elliptic overdetermined systems of nonlinear first-order complex PDE. **97b:35134**
— Local solvability in a class of overdetermined systems of linear PDE. **97f:35150**

Items with secondary classifications in 35N10

Akahori, Takao On a local embedding theorem of generalized-Mizohata structures. **97k:35028**
Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter) The Green function of model step two hypoelliptic operators and the analysis of certain tangential Cauchy Riemann complexes. **97f:35029**
Chanillo, Sagun (*with* Treves, François) Local exactness in a class of differential complexes. (English summary) **97m:58185**
Gaveau, Bernard *see* **Beals, Richard; et al., 97f:35029**

Greiner, Peter *see* **Beals, Richard; et al., 97f:35029**
Treves, François *see* **Chanillo, Sagun, 97m:58185**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32F20 and 58G05]

Derridj, Makhlouf (*with* Tartakoff, David S.) Microlocal analyticity for the canonical solution $\overline{\partial}_b$ on some rigid weakly pseudoconvex hypersurfaces in $\mathbf{C}^2$. (English summary) **97e:35121**
Tartakoff, David S. *see* **Derridj, Makhlouf, 97e:35121**

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Berndtsson, Bo $\overline{\partial}$ and Schrödinger operators. **97a:32010**
Chen, Ten Ging (*with* Lin, Jin Long) Integral representation of solution for $\overline{\partial}u = f$ and its uniform estimate on ellipsoids. (English summary) **97d:32003**
Cho, Hong Rae Global regularity of the $\overline{\partial}$-Neumann problem on an annulus between two pseudoconvex manifolds which satisfy property (P). (English summary) **97e:32019**
Christ, Michael Remarks on analytic hypoellipticity of $\overline{\partial}_b$. **97d:32022**
Fontana, Luigi (*with* Krantz, Steven G.; Peloso, Marco M.) Hodge theory in the Sobolev topology for the de Rham complex on a smoothly bounded domain in Euclidean space. (English summary) **97c:58145**
Hayashi, Yasuo A global theory of some nonlinear Cauchy-Riemann system in several complex variables. (English summary) **97d:32023**
Iordan, Andrei *see* **Khenkin, G. M.; et al., 97g:32014**
Khenkin, G. M. (*with* Iordan, Andrei; Kohn, Joseph J.) Estimations sous-elliptiques pour le problème $\overline{\partial}$-Neumann dans un domaine strictement pseudoconvexe à frontière lisse par morceaux. (English and French summaries) [Subelliptic estimates for the $\overline{\partial}$-Neumann problem on strictly pseudoconvex domains with piecewise smooth boundary] **97g:32014**
Kohn, Joseph J. *see* **Khenkin, G. M.; et al., 97g:32014**
Krantz, Steven G. *see* **Fontana, Luigi; et al., 97c:58145**
Lin, Jin Long *see* **Chen, Ten Ging, 97d:32003**
Peloso, Marco M. *see* **Fontana, Luigi; et al., 97c:58145**

35N99 None of the above, but in this section

Items with secondary classifications in 35N99

Puel, Jean-Pierre (*with* Yamamoto, Masahiro) On a global estimate in a linear inverse hyperbolic problem. (English summary) **97k:35271**
Yamamoto, Masahiro *see* **Puel, Jean-Pierre, 97k:35271**

35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

Egorov, Yurii Vladimirovich (*with* Kondrat'ev, Vladimir Aleksandrovich) ★ On spectral theory of elliptic operators. (English summary) **97m:35189**
Kondrat'ev, Vladimir Aleksandrovich *see* **Egorov, Yurii Vladimirovich, 97m:35189**

Items with secondary classifications in 35Pxx

Il'in, Vladimir Aleksandrovich ★ Spectral theory of differential operators. **97d:47057**
Pavlov, B. S. Spectral analysis of a dissipative singular Schrödinger operator in terms of a functional model [MR 93c:47057]. (*see* **97b:35002**)

35P05 General spectral theory of PDE

Arendt, Wolfgang (*with* Monniaux, S.) Domain perturbation for the first eigenvalue of the Dirichlet Schrödinger operator. **97d:35157**
Blanchard, Philippe (*with* Stubbe, Joachim) Bound states for Schrödinger Hamiltonians: phase space methods and applications. (English summary) **97g:35117**
Bochenek, Jan A multiple linear eigenvalue problem for systems in a real ordered Banach space. (English summary) **97c:35143**
Boutet de Monvel-Berthier, Anne-Marie (*with* Kazantseva, Galina; Mantoiu, Marius) Some anisotropic Schrödinger operators without singular spectrum. (English summary) **97h:35172**
Bruneau, Vincent Sur le spectre continu de l'opérateur de Dirac: formule de Weyl, limite non-relativiste. (English and French summaries) [On the continuous spectrum of the Dirac operator: Weyl formula, nonrelativistic limit] **97c:35144**
Combes, Jean Michel (*with* Hislop, P. D.; Mourre, E.) Spectral averaging, perturbation of singular spectra, and localization. (English summary) **97c:35145**
Croc, Elisabeth (*with* Dermenjian, Yves) Spectral analysis of a multistratified acoustic strip. II. Asymptotic behavior of solutions for a simple stratification. (English summary) **97h:35173**
Davies, E. B. L^p spectral independence for certain uniformly elliptic operators. **97i:35128**
Dermenjian, Yves *see* **Croc, Elisabeth, 97h:35173**
Dobrokhotov, S. Yu. (*with* Tolstova, O. L.) Asymptotic eigenfunctions and generalized eigenfunctions of an operator associated with the wave motions of a fluid over an elastic slightly uneven bottom. (Russian) **97c:35146**
Durand, Marc (*with* Iftimie, V.) Une inégalité ponctuelle pour la résolvante d'un opérateur de Schrödinger avec un champ magnétique. [A pointwise inequality for the resolvent of a Schrödinger operator with magnetic field] **97k:35183**
Gadyl'shin, R. R. On a complete electromagnetic analogue of the Helmholtz resonator. (Russian. Russian summary) **97g:35118**
Gadzhiev, T. S. On the spectrum of some singular differential equations. (Russian. Russian summary) **97b:35135**
Grigis, Alain (*with* Klopp, Frédéric) Valeurs propres et résonances au voisinage d'un seuil. (English and French summaries) [Eigenvalues and resonances near a threshold] **97g:35119**
Harrell, Evans M., II (*with* Stubbe, Joachim) On trace identities and universal eigenvalue estimates for some partial differential operators. (English summary) **97i:35129**
Hempel, R. (*with* Herbst, I.) Bands and gaps for periodic magnetic Hamiltonians. **97d:35158**
Herbst, I. *see* **Hempel, R., 97d:35158**
Hislop, P. D. *see* **Combes, Jean Michel; et al., 97c:35145**
Iftimie, V. *see* **Durand, Marc, 97k:35183**
Jerison, David Eigenfunctions and harmonic functions in convex and concave domains. **97c:35147**
Kazantseva, Galina *see* **Boutet de Monvel-Berthier, Anne-Marie; et al., 97h:35172**
Klopp, Frédéric *see* **Grigis, Alain, 97g:35119**
Lupo, D. (*with* Micheletti, A. M.) A remark on the structure of the set of perturbations which keep fixed the multiplicity of two eigenvalues. (English summary) **97a:35165**
Makin, A. S. Spectral analysis of a boundary value problem for the Schrödinger operator with complex potential. (Russian. Russian summary) **97f:35151**
Mantoiu, Marius *see* **Boutet de Monvel-Berthier, Anne-Marie; et al., 97h:35172**
Matsumoto, Hiroyuki[2] (*with* Ueki, Naomasa) Spectral analysis of Schrödinger operators with magnetic fields. (English summary) **97f:35152**
Micheletti, A. M. *see* **Lupo, D., 97a:35165**
Monniaux, S. *see* **Arendt, Wolfgang, 97d:35157**
Mourre, E. *see* **Combes, Jean Michel; et al., 97c:35145**
Pang, M. M. H. Approximation of ground state eigenfunction on the snowflake region. **97f:35153**
Raikov, George D. The essential spectrum of a linear magnetohydrodynamic model containing a vacuum region. **97m:35190**
Shimizu, Senjo The limiting absorption principle for elastic wave propagation problems in perturbed stratified media $\mathbf{R}^3$. (English summary) **97h:35174**
Stubbe, Joachim *see* **Blanchard, Philippe, 97g:35117** *and* **Harrell, Evans M., II, 97i:35129**
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Ueki, Naomasa *see* **Matsumoto, Hiroyuki[2], 97f:35152**

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Antón, Inmaculada (*with* López-Gómez, Julián) The strong maximum principle for cooperative periodic-parabolic systems and the existence of principal eigenvalues. (English summary) (*see* **97a:00029**)
Antonyuk, A. Val. (*with* Antonyuk, A. Vikt.) Weighted spectral gap and logarithmic Sobolev inequalities and their applications. (English summary) **97i:58183**
Antonyuk, A. Vikt. *see* **Antonyuk, A. Val., 97i:58183**
Aref'ev, V. N. (*with* Bagirov, L. A.) Asymptotic behavior of solutions of the Dirichlet problem for a parabolic equation in domains with singularities. (Russian. Russian summary) **97b:35085**
Bagirov, L. A. *see* **Aref'ev, V. N., 97b:35085**
Bañuelos, Rodrigo (*with* Sá Barreto, Antônio) On the heat trace of Schrödinger operators. **97b:35031**
Barbatis, Gerassimos Stability of weighted Laplace-Beltrami operators under L^p-perturbation of the Riemannian metric. **97g:58160**
Belishev, M. I. (*with* Kachalov, A. P.) An operator integral in the multidimensional inverse spectral problem. (Russian. English and Russian summaries) **97h:47070**
Bulla, W. (*with* Gesztesy, Fritz; Renger, Walter; Simon, Barry) Weakly coupled bound states in quantum waveguides. (English summary) **97g:81009**
Chatelain, T. (*with* Choulli, Mourad; Henrot, Antoine) Some new ideas for a Schiffer's conjecture. (English summary) **97a:35038**
Choulli, Mourad *see* **Chatelain, T.; et al., 97a:35038**
Chuchaev, I. I. *see* **Geller, V. A.; et al., 97j:81061**
Chung, Fan R. K. ★ Spectral graph theory. (English summary) **97k:58183**
Croc, Elisabeth (*with* Dermenjian, Yves) Valeurs propres et principe d'absorption limite dans une bande acoustique. (English and French summaries) [Eigenvalues and limiting absorption principle in an acoustic strip] **97g:76083**
Daumer, Franck Équations de Schrödinger avec potentiels singuliers et à longue portée dans l'approximation de liaison forte. (English and French summaries) [Schrödinger equations with singular potentials and long range in the tight-binding approximation] **97g:81081**
Davies, E. B. Uniformly elliptic operators with measurable coefficients. **97a:47074**
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Eshima, Nobuoki *see* **Tabata, Minoru, 97a:82074**
Fan, Qi Hong On the essential spectrum of pseudodifferential operators. II. (English summary) **97a:47081**
Farwig, Reinhard (*with* Sohr, Hermann) Helmholtz decomposition and Stokes resolvent system for aperture domains in L^q-spaces. (English summary) **97e:35132**
Geller, V. A. (*with* Margulis, Viktor Aleksandrovich; Chuchaev, I. I.) On the structure of the spectrum of three-dimensional periodic Landau operators. (Russian. Russian summary) **97j:81061**
Gesztesy, Fritz *see* **Bulla, W.; et al., 97g:81009**
Hattori, Tetsuya[2] Discrete spectrum of many-body Schrödinger operators with nonconstant magnetic fields. (Japanese) (*see* **97f:00031**)
Henrot, Antoine *see* **Chatelain, T.; et al., 97a:35038**
Jäger, Willi (*with* Saitō, Yoshimi) On the spectrum of the reduced wave operator with cylindrical discontinuity. (English summary) **97k:35036**
Kachalov, A. P. (*with* Kurylev, Ya. V.) The multidimensional inverse Gel'fand problem with incomplete boundary spectral data. (Russian) **97c:58158**
— *see also* **Belishev, M. I., 97h:47070**
Kirk, P. (*with* Klassen, E.) Analytic deformations of the spectrum of a family of Dirac operators on an odd-dimensional manifold with boundary. (English summary) **97d:58184**
Klassen, E. *see* **Kirk, P., 97d:58184**
Klein, Abel Absolutely continuous spectrum in random Schrödinger operators. (English summary) **97h:82040**
Koch, Herbert (*with* Tataru, Daniel) On the spectrum of hyperbolic semigroups. (English summary) **97k:35150**

Kumura, Hironori On the essential spectrum of the Laplacian on complete manifolds. **97k:58172**
Kurylev, Ya. V. *see* **Kachalov, A. P., 97c:58158**
Langer, Heinz (*with* Möller, Manfred) The essential spectrum of a non-elliptic boundary value problem. (English summary) **97c:47057**
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Najman, Branko Resolvent estimates for singularly perturbed elliptic operators in Hölder spaces. (English summary) **97m:35053**
Nakamura, Shu[1] Band spectrum for Schrödinger operators with strong periodic magnetic fields. **97a:81038**
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Pang, M. M. H. L^1 and L^2 properties of a class of singular second order elliptic operators on $\mathbf{R}^N$ with measurable coefficients. **97g:35031**
Ramm, Alexander G. Property C with constraints for PDE. (English summary) **97k:35027**
Rappaz, Jacques (*with* Sanchez Hubert, J.; Sánchez-Palencia, Enrique; Vasil'ev, D. G.) On spectral pollution in the finite element approximation of thin elastic "membrane" shells. (English summary) **97k:65259**
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Shimizu, Senjo The limiting absorption principle for elastic wave propagation problems in perturbed stratified media $\mathbf{R}^3$. (English summary) **97b:35170**
Shondin, Yu. G. Semibounded local Hamiltonians for perturbations of the Laplacian on curves with angular points in $\mathbf{R}^4$. (Russian. English and Russian summaries) **97g:47044**
Simon, Barry *see* **Bulla, W.; et al., 97g:81009**
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Sugimura, Kunihiko An estimate on the number of bound states of Schrödinger operators. (English summary) **97h:81047**
Tabata, Minoru (*with* Eshima, Nobuoki) The point spectrum of the linearized Boltzmann operator with the potential term in a semi-infinite domain and the corresponding eigenspaces. (English summary) **97a:82074**
Tachizawa, Kazuya The pseudodifferential operators and Wilson bases. (English summary) **97j:35169**
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Vishik, M. M. Spectrum of small oscillations of an ideal fluid and Lyapunov exponents. (English summary) **97k:35203**
Wieners, Christian A numerical existence proof of nodal lines for the first eigenfunction of the plate equation. **97c:35047**
Zayed, E. M. E. An inverse problem for a general multiply connected bounded domain. (English summary) **97b:35199**
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35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO

Buvaev, K. T. Almost everywhere convergence of spectral expansions of function in L_1^α. (Russian. English and Uzbek summaries) **97j:35108**
Buzurnyuk, N. S. (*with* Serov, V. S.) On the convergence of Riesz means of spectral expansions that correspond to the Schrödinger operator with a singular potential. (Russian. Russian summary) **97i:35130**
Falerman, M. (*with* Langer, Heinz) Elliptic problems involving an indefinite weight function. (English summary) **97f:35154**
Khalmukhamedov, A. R. On negative powers of the singular Schrödinger operator and the convergence of spectral expansions. (Russian. Russian summary) **97g:35120**
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Kornienko, V. V. On weak and strong irregularity. (Russian. Russian summary) **97j:35109**
Kritskov, L. V. On an ordered spectral representation of the space L_2 with respect to the Schrödinger operator with a singular matrix potential. (Russian. Russian summary) **97j:35110**
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Mamedov, Kh. R. On the completeness and minimality of one-half of the eigenfunctions corresponding to the biharmonic equation in a half strip. (Russian) **97m:35191**
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Rakhimov, A. A. On conditions for the localization of spectral expansions that correspond to elliptic operators of class A_r. (Russian. Russian summary) **97e:35123**
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Zhang, Zhen Qiu (*with* Shu, Li Sheng) Eigenfunction expansions for the generalized sub-Laplacian. (Chinese. English and Chinese summaries) **97g:35121**

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Gaultier, Maurice (*with* Lezaun Iturralde, Mikel) Spectral study of a self-adjoint operator on $L^2(\Omega)$ related with a Poincaré type constant. (English and French summaries) **97j:47069**
Hähner, Peter A periodic Faddeev-type solution operator. (English summary) **97d:35021**
Kauffman, Robert M. ★ Eigenfunction expansions, operator algebras and Riemannian symmetric spaces. (English summary) **97j:47031**
Konstantinov, A. Yu. (*with* Chubenko, V. A.) Expansion in generalized eigenvectors of left-definite multiparameter spectral problems. (Russian. English summary) **97k:47018**
Lassas, Matti Non-selfadjoint inverse spectral problems and their applications to random bodies. **97d:47058**
Lezaun Iturralde, Mikel *see* **Gaultier, Maurice, 97j:47069**
Shubov, Marianna A. Basis property of eigenfunctions of nonselfadjoint operator pencils generated by the equation of nonhomogeneous damped string. (English summary) **97e:47085**
Yakubov, S. Ya. ★ Completeness of root functions of regular differential operators. (English summary) **97k:47002**

35P15 Estimation of eigenvalues, upper and lower bounds

Abawi, Ahmad T. (*with* Dashen, Roger F.; Levine, Herbert) The eigenvalues of the Laplacian on a sphere with boundary conditions specified on a segment of a great circle. (English summary) **97m:35192**
Arendt, Wolfgang (*with* Batty, Charles J. K.) The spectral bound of Schrödinger operators. (English summary) **97b:35136**
Ashbaugh, Mark S. (*with* Benguria, Rafael D.) On Rayleigh's conjecture for the clamped plate and its generalization to three dimensions. **97j:35111**
— (*with* Benguria, Rafael D.) Sharp upper bound to the first nonzero Neumann eigenvalue for bounded domains in spaces of constant curvature. (English summary) **97d:35160**
— (*with* Laugesen, Richard S.) Fundamental tones and buckling loads of clamped plates. **97j:35112**
Batty, Charles J. K. The spectral bound of Schrödinger operators. **97m:35193**
— *see also* **Arendt, Wolfgang, 97b:35136**
Benguria, Rafael D. *see* **Ashbaugh, Mark S., 97d:35160** *and* **97j:35111**
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Cui, Run Qing *see* **Qi, Feng; et al., 97f:35156**
Dashen, Roger F. *see* **Abawi, Ahmad T.; et al., 97m:35192**
Egorov, Yurii Vladimirovich (*with* Kondrat'ev, Vladimir Aleksandrovich) Estimates of the first eigenvalue for the Dirichlet problem. (English and French summaries) **97b:35137**
Figotin, A. L. (*with* Kuchment, Peter) Band-gap structure of spectra of periodic dielectric and acoustic media. I. Scalar model. (English summary) **97g:35122**
Garofalo, Nicola (*with* Shen, Zhongwei) Absence of positive eigenvalues for a class of subelliptic operators. **97f:35155**
Guo, Bai Ni *see* **Qi, Feng; et al., 97f:35156**
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Nadirashvili, N. S. Rayleigh's conjecture on the principal frequency of the clamped plate. **97j:35113**
Qi, Feng (*with* Guo, Bai Ni; Cui, Run Qing) Estimates of the upper bound of the difference of two arbitrary neighboring eigenvalues of the Schrödinger operator. (Chinese. English and Chinese summaries) **97f:35156**
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Skazka, V. V. On the computation of the number of eigenvalues lying in the right half-plane in spectral problems associated with hyperbolic systems. I. Solvability of the Lyapunov equation. (Russian. Russian summary) **97m:35194**
Wang, Feng-Yu *see* **Chen, Mu-Fa, 97h:35175**

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Agmon, Shmuel On perturbation of embedded eigenvalues. **97d:58196**
Bañuelos, Rodrigo (*with* Carroll, Tom) Addendum to: "Brownian motion and the fundamental frequency of a drum" [Duke Math. J. **75** (1994), no. 3, 575–602; MR 96m:31003]. **97f:31004**
Carroll, Tom *see* **Bañuelos, Rodrigo, 97f:31004**
Choi, Q-Heung (*with* Chun, Sungki; Jung, Tacksun) The multiplicity of solutions and geometry of a nonlinear elliptic equation. (English summary) **97e:35056**
Chun, Sungki *see* **Choi, Q-Heung; et al., 97e:35056**
Courtois, Gilles Spectrum of manifolds with holes. (English summary) **97b:58142**
Dittmar, Bodo Zu einem Stekloffschen Eigenwertproblem in Ringgebieten. [On a Stekloff eigenvalue problem in ring domains] **97k:35035**
Dostanić, Milutin R. Some estimations of positive and negative eigenvalues for an inhomogeneous membrane. (English summary) **97e:35035**
Edmunds, David E. (*with* Triebel, Hans) ★ Function spaces, entropy numbers, differential operators. **97h:46045**
Egorov, Yurii Vladimirovich (*with* Kondrat'ev, Vladimir Aleksandrovich) On moments of negative eigenvalues of an elliptic operator. **97a:47075**
Erdős, László Rayleigh-type isoperimetric inequality with a homogeneous magnetic field. (English summary) **97g:35029**
Fefferman, Charles L. (*with* Seco, Luis A.) The eigenvalue sum for a three-dimensional radial potential. **97a:81042**
Gadyl'shin, R. R. Asymptotics of the minimum eigenvalue for a circle with fast oscillating boundary conditions. (English and French summaries) **97f:35158**

Goldman, André Le spectre de certaines mosaïques poissonniennes du plan et l'enveloppe convexe du pont brownien. (French summary) [The spectrum of certain Poisson mosaics of the plane and the convex envelope of the Brownian bridge] **97f:60028**
Helffer, Bernard Correlation decay and gap of the transfer operator. (English summary) **97j:81063**
Huang, Yin Xi On the eigenvalues of the p-Laplacian with varying p. (English summary) **97m:35081**
Jorge, Luquésio P. de M. (*with* de Lima, Levi L.) Local stability of the first eigenvalue of the Laplacian. (English summary) **97k:58171**
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López-Gómez, Julián The maximum principle and the existence of principal eigenvalues for some linear weighted boundary value problems. (English summary) **97b:35037**
Oleĭnik, Ol'ga Arsen'evna (*with* Shaposhnikova, T. A.) Averaging of solutions of the Dirichlet problem in a partially punctured domain of general form with nonperiodic structure. (Russian. Russian summary) **97i:35010**
Pastukhova, S. E. On the error of averaging for the Steklov problem in a punctured domain. (Russian. Russian summary) **97d:35016**
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Smits, Robert G. Spectral gaps and rates to equilibrium for diffusions in convex domains. **97d:35037**
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35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO

Aramaki, J. An extension of the Ikehara Tauberian theorem and its application. **97e:35125**
Birman, Mikhail S. (*with* Laptev, A.) The negative discrete spectrum of a two-dimensional Schrödinger operator. (English summary) **97i:35131**
Cancelier, C. (*with* Lévy-Bruhl, Pierre; Nourrigat, J.) Remarks on the spectrum of Dirac operators. (English summary) **97m:35195**
Chen, Hua[1] Irregular but nonfractal drums and n-dimensional Weyl conjecture. (English summary) **97e:35126**
Cupała, Wiesław The upper bound of the number of eigenvalues for a class of perturbed Dirichlet forms. (English summary) **97a:35166**
Dadabaev, A. On the asymptotics of the spectrum of elliptic differential operators on unbounded manifolds without a boundary. (Russian. Tajiki summary) **97k:35184**
Dimassi, Mouez (*with* Sjöstrand, Johannes) Trace asymptotics via almost analytic extensions. **97f:35157**
Faierman, M. Eigenvalue asymptotics for an oblique derivative problem involving an indefinite weight. (English summary) **97m:35196**
Gadoev, M. G. (*with* Olimov, M. I.) On the asymptotics of the spectrum of nonselfadjoint systems of differential operators in limit-cylindrical domains. (Russian. Tajiki summary) **97a:35167**
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35P25 Scattering theory for PDE [see also 47A40]

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35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO

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35P99 None of the above, but in this section

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35Q15 Riemann-Hilbert problems [see also 30E25, 31A25, 31B20]

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35Q30 Stokes and Navier-Stokes equations [see also 76D05, 76D07, 76N10]

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Bainov, Drumi D. (*with* Kamont, Zdzisław; Minchev, Emil) Numerical solutions of hyperbolic differential-functional equations with impulses. (Italian summary) **97h:65108**

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Onose, Hiroshi On oscillation of nonlinear first order differential equations with its application. (English summary) (*see* **97a:00029**)

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35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

Ahmed, Nasir Uddin *see* **Zhu, Qingxin, 97a:35249**
Bertin, E. M. J. Potential theory of the Monge-Ampère equation on a Banach space. (*see* **97f:00034**)
Bogdanskiĭ, Yu. V. Cauchy problem for an essentially infinite-dimensional parabolic equation with variable coefficients. (English summary) **97m:35269a**
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— (*with* Da Prato, Giuseppe) Infinite-dimensional elliptic equations with Hölder-continuous coefficients. (English summary) **97g:35174**
Chung, Dong Myung (*with* Ji, Un Cig) Cauchy problems for a partial differential equation in white noise analysis. **97i:35183**
Da Prato, Giuseppe *see* **Cannarsa, Piermarco, 97g:35174** *and* **97m:35270**
Feller, M. N. On a nonlinear equation not solved with respect to the Lévy Laplacian. (Russian. English and Ukrainian summaries) **97m:35271**
Guiotto, Paolo Cauchy problem for nonautonomous Kolmogorov equations. (English summary) **97d:35232**
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Feller, M. N. Necessary and sufficient conditions of harmonicity of functions of infinitely many variables (Jacobian case). (English summary) **97m:46072**
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Han, Dong Uniqueness of infinite-dimensional multispecies reaction-diffusion processes. (Chinese. Chinese summary) **97d:60161**
James, Matthew R. (*with* Baras, J. S.) Partially observed differential games, infinite-dimensional Hamilton-Jacobi-Isaacs equations, and nonlinear H_∞ control. (English summary) **97f:49038**
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35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]

Abujabal, Hamza A. S. (*with* El-Borai, Mahmoud M.) An abstract Dirichlet problem in the Hilbert space. (English summary) **97m:35272**
Chinni, Antonia (*with* Cubiotti, Paolo) Partial differential equations in Banach spaces involving nilpotent linear operators. (English summary) **97h:35226**
Cubiotti, Paolo *see* **Chinni, Antonia, 97h:35226**
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Reissig, Michael Theorems of Cauchy-Kovalevsky and Holmgren type for abstract evolution equations in scales of locally convex spaces. (English summary) **97g:35175**

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Teodoru, Georgeta Classical solutions of the Darboux problem for partial functional-differential inclusions in Banach space. (Romanian summary)

35R25 Improperly posed problems for PDE

Bastay, George ★ Iterative methods for ill-posed boundary value problems. (English summary) **97a:35250**
Birnir, Björn (*with* Kenig, Carlos E.; Ponce, Gustavo; Svanstedt, Nils; Vega, Luis) On the ill-posedness of the IVP for the generalized Korteweg-de Vries and nonlinear Schrödinger equations. **97d:35233**
Bugîr, M. K. Ill-posed boundary value problems for an n-order polyharmonic equation. (Russian) **97d:35234**
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Binder, Andreas On an inverse problem arising in continuous casting of steel billets. (English summary) **97a:35251**
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Diller, David J. *see* **DiBenedetto, Emmanuele, 97d:35113**
Dix, Daniel B. Nonuniqueness and uniqueness in the initial-value problem for Burgers' equation. (English summary) **97c:35174**
Fayazov, K. S. An ill-posed boundary value problem for a second-order equation of mixed type. (Russian. English and Uzbek summaries)
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Ivanov, Valentin Konstantinovich (*with* Mel'nikova, I. V.; Filinkov, A. I.) ★ Дифференциально-операторные уравнения и некорректные задачи. (Russian. English and Russian summaries) [Operator-differential equations and ill-posed problems] **97j:47092**
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35R30 Inverse problems (undetermined coefficients, etc.) for PDE

Alekseev, G. V. Nonlinear inverse source problems of underwater acoustics. (English summary) **97g:35176**

Alessandrini, Giovanni (*with* Beretta, Elena; Vessella, Sergio) Determining linear cracks by boundary measurements: Lipschitz stability. (English summary) **97b:35188**

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— Formulae for solutions and coefficients in nonlinear equations. (English summary) **97d:35235**

— (*with* Ayupova, N. B.) On the mathematical models in the problems of ethnogeny and evolution of populations. (English summary) **97f:35229**

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— *see also* **Arbuzov, E. V., 97b:35189**

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— (*with* Yamamoto, Masahiro) Generic well-posedness of an inverse parabolic problem—the Hölder-space approach. (English summary) **97k:35267**

— (*with* Yamamoto, Masahiro) An inverse parabolic problem with non-zero initial condition. (English summary) **97j:35160**

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— (*with* Lamos, H.) An inverse problem for a nonlinear mathematical model of sorption dynamics with mixed-diffusional kinetics. (English summary) **97d:35239**

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— (*with* von Wolfersdorf, Lothar) Inverse problems for identification of memory kernels in heat flow. (English summary) **97e:35198**

— An inverse problem for a quasilinear integrodifferential wave equation. (English and Estonian summaries) **97f:35232**

— (*with* von Wolfersdorf, Lothar) Inverse problems for identification of memory kernels in viscoelasticity. (English summary) **97k:35268**

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Liu, Wei Guo[2] *see* **Zhang, Li[1]; et al., 97l:35189**

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Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Mellin quantization in the cone calculus for Boutet de Monvel's algebra. (English summary) **97a:58185**

— Invariance of the cone algebra without asymptotics. (English summary) **97m:58191**

— *see also* **Leopold, Hans-Gerd, 97h:46048**

Schulze, Bert-Wolfgang *see* **Schrohe, Elmar, 97a:58185** *and* **Fedosov, B. V., 97j:58147**

Schumann, Rainer Regularity for a variational inequality with a pseudodifferential operator of negative order. (English summary) **97g:47047**

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Ueno, Kazushige Invariant structures and equivalence problems of second order pseudoelliptic differential operators of principal and projective type. **97b:58159**

Unterberger, André (*with* Upmeier, Harald) ★ Pseudodifferential analysis on symmetric cones. **97g:58166**

Upmeier, Harald *see* **Unterberger, André, 97g:58166**

Wendland, Wolfgang L. *see* **Duduchava, R., 97a:47080**

Witt, Ingo ★ Nichtlineare hyperbolische Evolutionsgleichungen in Gebieten mit konischen Singularitäten. (German) [Nonlinear hyperbolic evolution equations in domains with conical singularities] **97h:35134**

— ★ Non-linear hyperbolic equations in domains with conical points. (English summary) **97a:35159**

Wong, M. W. Eigenvalues of semilinear operators on Banach spaces. (English summary) **97i:47128**

— *see also* **Fan, Qi Hong, 97j:47073**

Xu, Chao Jiang (*with* Zhu, Xu Sheng) On the inverse of a class of degenerate elliptic operators. (English summary) **97f:35078**

Zhu, Xu Sheng *see* **Xu, Chao Jiang, 97f:35078**

35S10 Initial value problems for ΨDO

Boggiatto, Paolo The Cauchy problem for a class of pseudodifferential operators in $\mathbf{R}^n$ associated to a polyhedron. (English summary) **97f:35243**

Kumano-go, Naoto A Hamiltonian path integral for a degenerate parabolic pseudo-differential operator. (English summary) **97h:35246**

Items with secondary classifications in 35S10

Agliardi, R. (*with* Mari, D.) On the Cauchy problem for some pseudo-differential equations of Schrödinger type. (English summary) **97d:35258**

Kajitani, Kunihiko (*with* Wakabayashi, Seiichiro) The Cauchy problem for a class of hyperbolic operators with double characteristics. **97h:35136**

Liu, Weixia *see* **Luan, Wengui, 97d:35005**

Luan, Wengui (*with* Liu, Weixia) The uniqueness and continuous dependence for characteristic Cauchy problem of partial differential equations. (English summary) **97d:35005**

Mari, D. *see* **Agliardi, R., 97d:35258**

Ōkaji, Takashi Uniqueness of the Cauchy problem for elliptic operators with fourfold characteristics of constant multiplicity. **97k:35004**

Ribaud, Francis Semilinear parabolic equations with distributions as initial data. (English summary) **97m:35127**

Wakabayashi, Seiichiro *see* **Kajitani, Kunihiko, 97h:35136**

35S15 Boundary value problems for ΨDO

Bennish, Joseph Variable discrete asymptotics of solutions to elliptic boundary-value problems. (English summary) (*see* **97m:00024**)

Hoh, Walter (*with* Jacob, Niels) On the Dirichlet problem for pseudodifferential operators generating Feller semigroups. (English summary) **97c:35227**

Jacob, Niels Various approaches to the Dirichlet problem for non-local operators satisfying the positive maximum principle. (English summary) **97e:35211**

— *see also* **Hoh, Walter, 97c:35227**

Shargorodskiĭ, E. M. Boundary value problems for elliptic pseudodifferential operators on a manifold. (Russian) **97d:35257**

Items with secondary classifications in 35S15

Benjamin, T. Brooke Solitary and periodic waves of a new kind. (English summary) **97m:35218**

Nakamura, Gen (*with* Tanuma, Kazumi) A nonuniqueness theorem for an inverse boundary value problem in elasticity. (English summary) **97a:35255**

Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Boundary value problems in Boutet de Monvel's algebra for manifolds with conical singularities. II. (English summary) **97d:58195**
Schulze, Bert-Wolfgang The variable discrete asymptotics in pseudo-differential boundary value problems. II. (English summary) **97c:58156**
— *see also* **Schrohe, Elmar, 97d:58195**
Taira, Kazuaki ★ Analytic semigroups and semilinear initial-boundary value problems. (English summary) **97g:47035**
Tanuma, Kazumi *see* **Nakamura, Gen, 97a:35255**

35S30 Fourier integral operators

Agliardi, R. (*with* Mari, D.) On the Cauchy problem for some pseudo-differential equations of Schrödinger type. (English summary) **97d:35258**
Mari, D. *see* **Agliardi, R., 97d:35258**

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Alrapetyan, R. G. (*with* Aleksandryan, G. R.) The parametrix of a mixed problem for the wave equation with a nonhomogeneous boundary condition. (Russian) **97f:35120**
Aleksandryan, G. R. *see* **Alrapetyan, R. G., 97f:35120**
Bony, Jean-Michel Weyl quantization and Fourier integral operators. **97b:58139**
Joshi, M. S. An intrinsic characterisation of polyhomogeneous Lagrangian distributions. (English summary) **97g:46048**
Kasumov, Namik Pseudodifferential calculus for oscillating symbols. **97a:47083**
Phong, Duong H. Regularity of Fourier integral operators. **97e:58216**
Rabinovich, Vladimir S. Singular integral operators on composite contours, and pseudodifferential operators. (Russian. Russian summary) **97a:47084**

35S35 Topological aspects: intersection cohomology, stratified sets, etc. [see also 32C38, 32S40, 32S60, 58G07]

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Kordyukov, Yu. A. Functional calculus for tangentially elliptic operators on foliated manifolds. (English summary) **97h:58158**

35S50 Paradifferential operators

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Chen, Hua[1] (*with* Rodino, Luigi) Micro-elliptic Gevrey regularity for nonlinear partial differential equations. (Italian summary) **97a:35019**
— (*with* Rodino, Luigi) Nonlinear microlocal analysis and applications in Gevrey classes. (English summary) (*see* **97m:00024**)
Rodino, Luigi *see* **Chen, Hua**[1], **97a:35019** *and* (**97m:00024**)
Xu, Chao Jiang Nonlinear microlocal analysis. **97k:35008**

35S99 None of the above, but in this section

Katsevich, Alexander I. (*with* Ramm, Alexander G.) Asymptotics of PDO on discontinuous functions near singular support. (English summary) **97d:35259**
Ramm, Alexander G. *see* **Katsevich, Alexander I., 97d:35259**

Items with secondary classifications in 35S99

Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter) The Green function of model step two hypoelliptic operators and the analysis of certain tangential Cauchy Riemann complexes. **97f:35029**
Dimassi, Mouez (*with* Sjöstrand, Johannes) Trace asymptotics via almost analytic extensions. **97f:35157**
Ebin, David G. Global solutions of the equations of elastodynamics for incompressible materials. (English summary) **97h:73026**
Efendiev, M. A. On a new variant degree theory of mapping and its application. (English summary) (*see* **97a:00029**)
Fabre, Caroline (*with* Lebeau, Gilles) Prolongement unique des solutions de l'equation de Stokes. (English and French summaries) [Unique continuation of the solutions of the Stokes equation] **97c:35156**
Gaveau, Bernard *see* **Beals, Richard; et al., 97f:35029**
Greiner, Peter *see* **Beals, Richard; et al., 97f:35029**
Hieber, Matthias Examples of pseudo-differential operators in L^p spaces with unbounded imaginary powers. **97a:47082**
Hoh, Walter Feller semigroups generated by pseudo-differential operators. **97b:47043**
Lebeau, Gilles *see* **Fabre, Caroline, 97c:35156**
Sjöstrand, Johannes *see* **Dimassi, Mouez, 97f:35157**

39–XX Finite differences and functional equations

39–01 Instructional exposition (textbooks, tutorial papers, etc.)

Elaydi, Saber N. ★ An introduction to difference equations. (English summary) **97m:39001**

Jerri, Abdul J. ★ Linear difference equations with discrete transform methods. (English summary) **97e:39001**

Koch, Hans (*with* Schenkel, Alain; Wittwer, Peter) Computer-assisted proofs in analysis and programming in logic: a case study. (English summary) **97k:39001**

Mardanov, I. Dzh. (*with* Valeev, K. G.) ★ Принцип сведения для разностных уравнений. (Russian. Russian summary) [The reduction principle for difference equations] **97b:39001**

Schenkel, Alain *see* **Koch, Hans; et al., 97k:39001**

Valeev, K. G. *see* **Mardanov, I. Dzh., 97b:39001**

Wittwer, Peter *see* **Koch, Hans; et al., 97k:39001**

Items with secondary classifications in 39–01

Sjöholm, Henrik Difference equations in a new way. (Swedish. English summary)

39–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 39–02

Kaymakcalan, B. *see* **Lakshmikantham, V.; et al., 97j:34002**

Lakshmikantham, V. (*with* Sivasundaram, S.; Kaymakcalan, B.) ★ Dynamic systems on measure chains. (English summary) **97j:34002**

Sivasundaram, S. *see* **Lakshmikantham, V.; et al., 97j:34002**

39–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 39–03

Aczél, János Variationen über das Thema Dimensionsanalyse. [Variations on the subject of dimensional analysis]

Feigenbaum, Mitchell J. Computer-generated physics. (*see* **97a:00023**)

Lawson, Jimmie D. The earliest semigroup paper? **97b:01012**

39–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 39–04

Paule, Peter (*with* Schorn, Markus) A Mathematica version of Zeilberger's algorithm for proving binomial coefficient identities. (English summary) **97j:39006**

Schorn, Markus *see* **Paule, Peter, 97j:39006**

39–06 Proceedings, conferences, collections, etc.

(Levi, Decio) *see* **Symmetries and integrability of difference equations, 97i:39001**

(Sablik, M.) *see* **Symposium: Functional Equations, 97b:39002**

(Vinet, Luc) *see* **Symmetries and integrability of difference equations, 97i:39001**

(Winternitz, Pavel) *see* **Symmetries and integrability of difference equations, 97i:39001**

Items listed otherwise than by author

Caldes de Malavella The Thirty-third International Symposium on Functional Equations. **97b:39002**

Estérel, PQ ★ Symmetries and integrability of difference equations. **97i:39001**

Symmetries and integrability of difference equations ★ Symmetries and integrability of difference equations. **97i:39001**

Symposium:

Functional Equations The Thirty-third International Symposium on Functional Equations. **97b:39002**

Workshop:

Symmetries and Integrability of Difference Equations ★ Symmetries and integrability of difference equations. **97i:39001**

39Axx Difference equations {For dynamical systems, see 58Fxx.}

Items with secondary classifications in 39Axx

Jerri, Abdul J. ★ Linear difference equations with discrete transform methods. (English summary) **97e:39001**

39A05 General

Basit, Bolis (*with* Günzler, Hans) Abstract functions with continuous differences and Namioka spaces. (English summary) **97f:39001**

Günzler, Hans *see* **Basit, Bolis, 97f:39001**

Ryaben'kiĭ, V. S. Piecewise regular solutions of difference equations, and difference potentials with density from a space of jumps. (Russian) **97f:39002**

Items with secondary classifications in 39A05

Askey, Richard A brief introduction to the world of q. (English summary) **97j:33027**

Verdoodt, Ann p-adic q-umbral calculus. **97b:05013**

39A10 Difference equations [see also 33Dxx]

Agarwal, Ravi Prakash Difference equations and inequalities: a survey. (English summary) (*see* **97a:00029**)

— (*with* Manuel, M. M. S.; Thandapani, E.) Oscillatory and nonoscillatory behavior of second order neutral delay difference equations. (English summary) **97i:39002**

— *see also* **Wong, Patricia J. Y., 97g:39005; Pang, Peter Y. H., 97h:39009; Wong, Patricia J. Y., 97i:39006** *and* **97j:39008**

Anand, P. V. S. *see* **Murty, Kanuri Narasimha; et al., 97g:39002**

Aronson, D. G. *see* **Huang, Ying Sue, 97j:39003**

Atakishiev, N. M. (*with* Ronveaux, André; Wolf, Kurt Bernardo) Difference equation for the associated polynomials on the linear lattice. (English and Russian summaries) **97f:39003**

Atici, Ferhan (*with* Peterson, Allan C.) Inequality for a $2n$th order difference equation. (English summary) **97f:39003**

Aulbach, Bernd Invariant fiber bundles for nonautonomous difference systems. (English summary) (*see* **97a:00029**)

de Avellar, Cerino Ewerton (*with* Garcia, Lizete Maria Crnkowise Fernandes; Marconato, Suzinei Aparecida Siqueira) Difference equations with retarded arguments. (English and Portuguese summaries) **97a:39001**

Babudzhyan, G. M. (*with* Flume, R.) Knizhnik-Zamolodchikov equations and the algebraic Bethe ansatz. (English summary) **97j:39001**

Barbeau, E. J. (*with* Tanny, Stephen) Periodicities of solutions of certain recursions involving the maximum function. (English summary) **97d:39001**

Berg, Lothar Generalized Euler-Frobenius polynomials. (English summary) **97a:39002**

Bishop, A. R. *see* **Cai, David; et al., 97c:39001**

Bohner, Martin On disconjugacy for Sturm-Liouville difference equations. (English summary) **97b:39003**

— Linear Hamiltonian difference systems: disconjugacy and Jacobi-type conditions. (English summary) **97a:39003**

Boykin, Timothy B. (*with* Johnson, C. D.) A generalized solution expression for linear homogeneous constant-coefficient difference equations. (English summary) **97b:39004**

Braaksma, B. L. J. (*with* Faber, B. F.) Multisummability for some classes of difference equations. (English and French summaries) **97e:39002**

Cai, David (*with* Bishop, A. R.; Grønbech-Jensen, Niels) Perturbation theories of a discrete, integrable nonlinear Schrödinger equation. (English summary) **97c:39001**

Camouzis, E. (*with* Grove, E. A.; Ladas, G.) Oscillation of a difference equation with periodic coefficient. (English summary) **97a:39004**

Chen, Guoting Sur la réduction formelle des systèmes aux différences. (English and French summaries) [On the formal reduction of difference systems] **97f:39004**

Cheng, Sui Sun (*with* Xie, Sheng Li; Zhang, Bing Gen) Qualitative theory of partial difference equations. II. Oscillation criteria for direct control systems in several variables. (English summary) **97h:39001**

— (*with* Xie, Sheng Li; Zhang, Bing Gen) Qualitative theory of partial difference equations. III. Forced oscillations of parabolic type partial difference equations. (English summary) **97h:39002**

— *see also* **Xie, Sheng Li, 97b:39022; Zhang, Bing Gen, 97b:39023; 97b:39024; Lin, Yi Zhong, 97h:39006; 97i:39004** *and* **Zhang, Guang, 97k:39009**

Chow, Yuan Shih On a difference equation with last conditions. **97b:39005**

Cooke, Kenneth L. (*with* Ladeira, Luiz A. C.) Applying Carvalho's method to find periodic solutions of difference equations. (English summary) **97c:39002**

Costin, Ovidiu (*with* Costin, Rodica) Rigorous WKB for finite-order linear recurrence relations with smooth coefficients. (English summary) **97a:39005**

Costin, Rodica *see* **Costin, Ovidiu, 97a:39005**

Cushing, J. M. Periodic cycles of nonlinear discrete renewal equations. (English summary) **97e:39003**

Dahiya, R. S. *see* **Zafer, A., 97a:39011**

Eloe, Paul W. (*with* Peil, Timothy) Sign properties of Green's functions for difference equations. (English summary) **97b:39006**

Faber, B. F. *see* **Braaksma, B. L. J., 97e:39002**

Fan, Hong Yi[1] *see* **Jing, Si-Cong, 97a:39008**

Feuer, J. (*with* Janowski, E. J.; Ladas, G.) Invariants for some rational recursive sequences with periodic coefficients. (English summary) **97b:39007**

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Fruchard, Augustin The sum of a function. (English summary) **97d:39002**

— Sur l'équation aux différences affine du premier ordre unidimensionnelle. (English and French summaries) [The one-dimensional first-order affine difference equation] **97e:39004**

Garcia, Lizete Maria Crnkowise Fernandes *see* **de Avellar, Cerino Ewerton; et al., 97a:39001**

Gérard, R. (*with* Lutz, D. A.; Schäfke, Reinhard) Analytic reduction of some nonlinear difference equations. **97a:39006**

Gohberg, Israel (*with* Kaashoek, Marinus A.; Kos, J.) Classification of linear time-varying difference equations under kinematic similarity. (English summary) **97h:39003**

Graef, John R. (*with* Spikes, Paul W.; Thandapani, E.; Pandian, Subbiah) Some oscillation theorems for perturbed nonlinear difference equations. **97a:39007**

— (*with* Qian, Chuanxi; Spikes, Paul W.) Oscillation and global attractivity in a discrete periodic logistic equation. (English summary) **97f:39005**

— (*with* Miciano, Agnes; Spikes, Paul W.; Sundaram, Pon.; Thandapani, E.) Oscillatory and asymptotic behavior of solutions of nonlinear neutral-type difference equations. (English summary) **97k:39002**

— (*with* Qian, Chuanxi) Asymptotic behavior of a forced difference equation. **97k:39003**

— *see also* **Thandapani, E.; et al., 97b:39020; 97d:39005; 97e:39008** *and* **97i:39005**

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Harmsen, Betty Jean The discrete variational problem: the vector case with right focal constraints. (English summary) **97b:39008**

Henderson, Johnny L. Singular boundary value problems for higher order difference equations. (English summary) **97b:39009**

— (*with* Peterson, Allan C.) Boundary value problems for functional difference equations. (English summary) **97b:39010**

— (*with* Lawrence, Bonita A.) Smooth dependence on boundary matrices. (English summary) **97d:39003**

Henson, Shandelle M. Existence and stability of nontrivial periodic solutions of periodically forced discrete dynamical systems. (English summary) **97j:39002**

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Huang, Ying Sue (*with* Aronson, D. G.) In-phase running and discrete rotating wave solutions for general system of Josephson junctions. (English summary) **97j:39003**

Huang, Yong Nian[1] (*with* Xi, Xiu Feng) A solution method for systems of linear difference equations with constant coefficients. (Chinese. English and Chinese summaries) **97h:39004**

Iavernaro, F. (*with* Trigiante, Donato) Soliton-like solutions of the discrete wave equation. (English summary) (*see* **97a:00029**)

Immink, G. K. On the relation between global properties of linear difference and differential equations with polynomial coefficients. II. (English summary) **97h:39005**

Janowski, E. J. *see* **Feuer, J.; et al., 97b:39007**

Jiang, Xing Guo (*with* Zhu, Dao Yuan) The solutions of linear difference equations with variable coefficients. (Chinese. English and Chinese summaries) **97b:39011**

Jing, Si-Cong (*with* Fan, Hong Yi[1]) q-Taylor's formula with its q-remainder. (English summary) **97a:39008**

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Kaashoek, Marinus A. *see* **Gohberg, Israel; et al., 97h:39003**

Kirichenova, O. V. (*with* Kotyurgina, A. S.; Romanovskiĭ, R. K.) The method of Lyapunov functions for systems of linear difference equations with almost periodic coefficients. (Russian. Russian summary) **97g:39001**

Klokov, Yu. A. On the asymptotic behavior of the solutions of some recurrent equations for Chebyshev coefficients. (Russian. English, Russian and Latvian summaries) **97c:39003**

Kocic, Vlajko L. (*with* Ladas, G.; Tzanetopoulos, G.; Thomas, Edward S., Jr.) On the stability of Lyness' equation. (English summary) **97b:39012**

Kolmanovskiĭ, V. B. (*with* Shaĭkhet, L. E.) General method of Lyapunov functionals construction for stability investigation of stochastic difference equations. (English summary) **97b:39013**

Korczak, Jadwiga (*with* Migda, Małgorzata) Comparison theorems for difference equations. (English summary) **97c:39004**

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Krause, Ulrich Stability trichotomy, path stability, and relative stability for positive nonlinear difference equations of higher order. (English summary) **97b:39014**

Kuniba, Atsuo (*with* Nakamura, Shuichi; Hirota, Ryogo) Pfaffian and determinant solutions to a discretized Toda equation for B_r, C_r and D_r. (English summary) **97e:39005**

Kunz, Hervé Schrödinger equation in a hierarchical potential. (English summary) **97j:39004**

Ladas, G. On the recursive sequence $x_{n+1} = \max\{A_0/x_n, \cdots, A_k/x_{n-k}\}$. (English summary)

— *see also* **Camouzis, E.; et al., 97a:39004**; **Feuer, J.; et al., 97b:39007** *and* **Kocic, Vlajko L.; et al., 97b:39012**

Ladeira, Luiz A. C. *see* **Cooke, Kenneth L., 97c:39002**

Lalli, B. S. *see* **Thandapani, E., 97b:39019**

Lawrence, Bonita A. *see* **Henderson, Johnny L., 97d:39003**

Lesky, Peter A. Dualität bei Polynomlösungen von reellen Differenzengleichungen zweiter Ordnung. (German summary) [Duality in polynomial solutions of real difference equations of second order] **97e:39006**

Li, Jibao *see* **Wang, Jizhong; et al., 97f:39011**

Li, Long Tu (*with* Qiu, Qiusheng; Yu, Zheng) Permanence of $x_{n+1} = x_n^2 f(x_n) g(x_{n-1})$. (English summary) **97f:39006**

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Lin, Yi Zhong (*with* Cheng, Sui Sun) Complete characterizations of a class of oscillatory difference equations. (English summary) **97i:39004**

— (*with* Cheng, Sui Sun) Necessary and sufficient conditions for oscillations of linear partial difference equations with constant coefficients. (English summary) **97h:39006**

Liu, Hai Liang (*with* Wang, Jinghua) Decay rate for perturbations of stationary discrete shocks for convex scalar conservation laws. (English summary) **97k:39004**

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Lorentzen, Lisa Perturbations of linear recurrence relations. (English summary) **97j:39005**

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— Qualitative behavior of Volterra difference systems. (English summary) **97h:39007**

Murty, Kanuri Narasimha (*with* Prasad, K. R.; Anand, P. V. S.) Two-point boundary value problems associated with Lyapunov type matrix difference system. (English summary) **97g:39002**

Nakamura, Akira[2] Toda equation and its solutions in special functions. (English summary) **97h:39008**

Nakamura, Shuichi *see* **Kuniba, Atsuo; et al., 97e:39005**

Ou, Chun Hua (*with* Luo, Wei; Tang, Heng Sheng) On the global attractivity for a neutral difference equation with two delays. (English summary) **97e:39007**

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Pang, Peter Y. H. (*with* Agarwal, Ravi Prakash) On periodicity of difference equations of a general type. (English summary) **97h:39009**

Paule, Peter (*with* Schorn, Markus) A Mathematica version of Zeilberger's algorithm for proving binomial coefficient identities. (English summary) **97j:39006**

Peil, Timothy Oscillation criteria for a neutral delay difference equation. (English summary) **97k:39005**

— *see also* **Eloe, Paul W., 97b:39006**

Pelyukh, G. P. On periodic solutions of difference equations with a continuous argument. (Russian. English and Ukrainian summaries) **97h:39010**

Peterson, Allan C. Sturmian theory and oscillation of a third order linear difference equation. (English summary) **97g:39003**

— (*with* Schneider, John) Comparison theorems for a difference equation with memory. (English summary) **97b:39016**

— *see also* **Henderson, Johnny L., 97b:39010** *and* **Atici, Ferhan, 97f:39003**

Philos, Ch. G. (*with* Purnaras, I. K.) Oscillations in a class of linear difference equations with periodic coefficients. (English summary) **97d:39004**

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— (*with* Schmeidel, E.) On the solutions of fourth order difference equations. **97j:39007**

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Szczawińska, Joanna Polynomial set-valued functions. (English summary) **97g:54036**
Tanny, Stephen *see* **Barbeau, E. J., 97d:39001**
Teplinskiĭ, A. Yu. *see* **Teplinskiĭ, Yu. V., 97k:39016**
Teplinskiĭ, Yu. V. (*with* Teplinskiĭ, A. Yu.) On the Erugin and Floquet-Lyapunov theorems for countable systems of difference equations. (Russian. English and Ukrainian summaries) **97k:39016**
Thandapani, E. (*with* Graef, John R.; Spikes, Paul W.) Monotonicity and summability of solutions of a second order nonlinear difference equation. (English summary) **97d:39005**
Trudinger, Neil S. *see* **Kuo, Hung-Ju, 97b:39035**
Yeung, Kit-Ming Some combinatorial identities involving Stirling numbers. **97d:05010**

39A99 None of the above, but in this section

Agrawal, B. M. *see* **Gupta, S. C., 97c:39012**
Arutina, O. L. *see* **Valeev, K. G., 97j:39014**
Gupta, S. C. (*with* Agrawal, B. M.) Expansion of finite summation involving R-functions. **97c:39012**
Jimbo, Michio (*with* Sakai, Hidetaka) A q-analog of the sixth Painlevé equation. (English summary) **97m:39002**
Sakai, Hidetaka *see* **Jimbo, Michio, 97m:39002**
Valeev, K. G. (*with* Arutina, O. L.) Stabilization of solutions of the system of nonlinear difference equations depending on a Markovian chain. (Ukrainian summary) **97j:39014**

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Allen, Edward J. (*with* Allen, Linda J. S.; Gilliam, Xiaoning) Dispersal and competition models for plants. (English summary) **97c:92012**
Allen, Linda J. S. *see* **Allen, Edward J.; et al., 97c:92012**
Belmehdi, S. *see* **Ronveaux, André; et al., 97j:33019**

Cabrera, Juan L. (*with* de la Rubia, F. Javier) Analysis of the behavior of a random nonlinear delay discrete equation. (English summary) **97m:58173**
Dil′muradov, N. *see* **Valeev, K. G., 97k:93075**
Gilliam, Xiaoning *see* **Allen, Edward J.; et al., 97c:92012**
Godoy, E. *see* **Ronveaux, André; et al., 97j:33019**
Pachpatte, B. G. Remarks on a certain discrete generalization of Opial's inequality involving higher order differences. **97c:26022**
Rasvan, Vladimir Estimates for stability radii in the case of coupled delay-differential and difference equations. (English summary) **97k:93048**
Ronveaux, André (*with* Belmehdi, S.; Godoy, E.; Zarzo, A.) Recurrence relation approach for connection coefficients. Applications to classical discrete orthogonal polynomials. (English summary) **97j:33019**
de la Rubia, F. Javier *see* **Cabrera, Juan L., 97m:58173**
Valeev, K. G. (*with* Dil′muradov, N.) Necessary conditions for optimality of solutions of a system of nonlinear difference equations depending on a semi-Markov random chain. (Russian. English summary) **97k:93075**
Zarzo, A. *see* **Ronveaux, André; et al., 97j:33019**

39Bxx Functional equations [see also 30D05]

39B05 General

Čermák, Jan Note on simultaneous solutions of a system of Schröder's equations. (English summary) **97b:39037**
Kuczma, Marek On some functional equations with conic sections as solutions. **97j:39015**

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Antonevich, Anatolii B. ★ Linear functional equations. Operator approach. (English summary) **97i:47001**
Ergün, Funda (*with* Kumar, S. Ravi; Rubinfeld, Ronitt) Approximate checking of polynomials and functional equations (extended abstract). (English summary) (*see* **97k:68012**)
Henderson, Johnny L. (*with* Peterson, Allan C.) Boundary value problems for functional difference equations. (English summary) **97b:39010**
(Iacob, Andrei) *see* **Antonevich, Anatolii B., 97i:47001**
Kumar, S. Ravi *see* **Ergün, Funda; et al., (97k:68012)**
(Muzafarov, V. M.) *see* **Antonevich, Anatolii B., 97i:47001**
Pelyukh, G. P. On periodic solutions of difference equations with a continuous argument. (Russian. English and Ukrainian summaries) **97h:39010**
Peterson, Allan C. *see* **Henderson, Johnny L., 97b:39010**
Rubinfeld, Ronitt *see* **Ergün, Funda; et al., (97k:68012)**
Rybárik, Ján g-functions. (English summary) **97m:28004**
Some, Blaise Un algorithme numérique de résolution d'équations fonctionnelles. (English and French summaries) [A numerical algorithm for the solution of functional equations] **97k:65288**
Zagrodziński, J. A. Solitons and quasi-periodic processes in functional equations. (English summary) (*see* **97j:58002**)

39B12 Iteration theory, iterative and composite equations [see also 26A18, 30D05, 58F08]

Aczél, János (*with* Rote, Günter; Schwaiger, Jens) Webs, iteration groups, and equivalent changes in probabilities. (English summary) **97m:39003**
Barbeau, E. J. (*with* Tanny, Stephen) Certain nonlinear recurrences: recent results and unsolved problems. **97b:39038**
Bartlomiejczyk, Lech Some remarks on the Daróczy equation. (English summary) **97b:39039**
Böger, Matthias A generalization of the iteration theory of entire and meromorphic functions.
Kahlig, P. (*with* Matkowska, A.; Matkowski, Janusz) On a class of composite functional equations in a single variable. (English summary) **97k:39017**
Luo, Ding Jun *see* **Yan, Zhong, 97g:39009**
Matkowska, A. *see* **Kahlig, P.; et al., 97k:39017**
Matkowski, Janusz *see* **Kahlig, P.; et al., 97k:39017**
Morawiec, Janusz Bounded solutions of Schilling's problem. (English summary) **97i:39009**
Narayaninsamy, Tony On a class of fractional iterates. (English summary) **97c:39013**
Nowakowska, W. (*with* Werbowski, J.) Oscillation of linear functional equations of higher order. (English summary) **97d:39008**
Rote, Günter *see* **Aczél, János; et al., 97m:39003**
Saito, Satoru *see* **Saitoh, Noriko; et al., 97k:39018**
Saitoh, Noriko (*with* Saito, Satoru; Shimizu, Akinobu; Yoshida, K.) An analysis of a family of rational maps containing integrable and non-integrable difference analogue of the logistic equation. (English summary) **97k:39018**
Schleiermacher, Adolf (*with* Targonski, Jolán M.) On functions with quasi-companion. **97b:39040**
Schwaiger, Jens *see* **Aczél, János; et al., 97m:39003**
Shimizu, Akinobu *see* **Saitoh, Noriko; et al., 97k:39018**
Si, Jian Guo On the monotonic continuous solutions of some iterated equation. **97k:39019**
Stopa, Maria On the form of solutions of the iterative functional equation of the nth order. **97c:39014**
Tanny, Stephen *see* **Barbeau, E. J., 97b:39038**
Targonski, György Phantom iterates and Liedl's Pilgerschritt transformation. (*see* **97k:58002**)
Targonski, Jolán M. *see* **Schleiermacher, Adolf, 97b:39040**
Werbowski, J. *see* **Nowakowska, W., 97d:39008**
Xie, Fu Gen Symbolic dynamics for the general quartic map. (English summary) **97e:39015**
Yan, Zhong (*with* Luo, Ding Jun) A study of a class of nonlinear dynamic models. I. (Chinese. English and Chinese summaries) **97g:39009**
Yang, Lu *see* **Zhang, Jing-Zhong; et al., 97d:39009**
Yoshida, K. *see* **Saitoh, Noriko; et al., 97k:39018**
Yu, Hai Yan *see* **Zhang, Hong Zhi**
Zhang, Hong Zhi (*with* Yu, Hai Yan) Two theorems on iterative functions. (Chinese. English and Chinese summaries)
Zhang, Jing-Zhong (*with* Yang, Lu; Zhang, Weinian) Some advances on functional equations. (English and Chinese summaries) **97d:39009**
Zhang, Weinian *see* **Zhang, Jing-Zhong; et al., 97d:39009**

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Baker, I. N. (*with* Maalouf, Ramez N.) Convergence of a modified iteration process. (English summary) **97k:30030**
Baker, John A. On a functional equation of Luce. (English summary) **97m:39004**
Barbé, André M. On a class of fractal matrices. III. Limit structures and hierarchical iterated function systems. (English summary) **97e:58126**
Chia, T. T. *see* **Tan, B. L., 97b:58104**
Christiansen, Bo *see* **Qu, Shi Xian; et al., 97c:58092**
Domsta, Joachim A limit formula for regular iteration groups. (English summary) **97m:26005**
Elaydi, Saber N. (*with* Kocic, Vlajko L.; Li, Jia[2]) Global stability of nonlinear delay difference equations. (English summary) **97f:39014**
Hasegawa, Hiroshi H. (*with* Luschei, Edward) Exact power spectrum of chaotic maps displaying intermittency and anomalous diffusion. (English summary) **97j:58100**
Haymond, R. E. (*with* Thomas, Edward S., Jr.) Busy dogs: a class of iteration problems. (English summary) **97d:90129**
He, Da-Ren *see* **Qu, Shi Xian; et al., 97c:58092**
Kocic, Vlajko L. *see* **Elaydi, Saber N.; et al., 97f:39014**
Lani-Wayda, Bernhard (*with* Walther, Hans-Otto) Chaotic motion generated by delayed negative feedback. II. Construction of nonlinearities. (English summary) **97g:58147**
— (*with* Walther, Hans-Otto) Errata in the paper: "Chaotic motion generated by delayed negative feedback. II. Construction of nonlinearities" [Math. Nachr. **180** (1996), 141–211; MR 97g:58147].
Li, Jia[2] *see* **Elaydi, Saber N.; et al., 97f:39014**
Luschei, Edward *see* **Hasegawa, Hiroshi H., 97j:58100**
Maalouf, Ramez N. *see* **Baker, I. N., 97k:30030**
Misiurewicz, Michał Thirty years after Sharkovskiĭ's theorem. (English summary) (*see* **97d:58006**)
— Thirty years after Sharkovskiĭ's theorem. (English summary) **97e:58040**
Petermann, André (*with* Zichichi, A.) Renormalization structure of the transition to chaos. (English summary) **97h:58069**
Qiao, Bi (*with* Antoniou, I.) Spectral decomposition of Chebyshev maps. (English summary) **97g:58131**
Qu, Shi Xian (*with* Christiansen, Bo; He, Da-Ren) A new type of crisis in a discontinuous, noninvertible map. (Chinese. English and Chinese summaries) **97c:58092**
Seifritz, Walter Functional logistic mapping. (English summary) **97i:58089**
Shishikura, Mitsuhiro Topological, geometric and complex analytic properties of Julia sets. **97e:58200**
Stawiska, Małgorzata Chebyshev polynomials on equipotential curves of a quadratic Julia set. (English summary) **97k:30032**
Steeb, Willi-Hans (*with* van Wyk, M. A.) Invariants and chaotic maps. (English summary) **97d:58141**
Tan, B. L. (*with* Chia, T. T.) Unusual period doublings in the linear-logistic map. (English summary) **97b:58104**
Tasaki, Shuichi Spectral properties of the Frobenius-Perron operator of the multibaker transformation. (English summary) **97m:58156**
Thomas, Edward S., Jr. *see* **Haymond, R. E., 97d:90129**
Viallet, Claude M. On some rational Coxeter groups. (English summary) **97j:14017**
Walorski, Janusz Convex solutions of the Schröder equation in Banach spaces. (English summary) **97c:39020**
Walther, Hans-Otto *see* **Lani-Wayda, Bernhard, 97g:58147**
Wen, Zhi-Xiong On the transfer matrices of fractals. (English summary) **97k:82005**
van Wyk, M. A. *see* **Steeb, Willi-Hans, 97d:58141**
Zichichi, A. *see* **Petermann, André, 97h:58069**

39B22 Equations for real functions

Bajger, Mariusz On a generalized Pexider equation connected with the iteration theory. (English summary) **97h:39014**
Baker, John A. On a functional equation of Luce. (English summary) **97m:39004**
— Functional equations, DEs and distributions. (English summary) **97e:39016**
Boros, Zoltán Note on multilinear functions and algebraic dependence. (English summary) **97a:39024**
Brillouet-Belluot, Nicole Multiplicative symmetry and related functional equations. (English summary) **97e:39015**
Brzdęk, Janusz On some conditional functional equations of Gołąb-Schinzel type. (English summary) **97g:39010**
— On continuous solutions of some functional equations. (English summary) **97c:39016**
Domańska, Katarzyna Cauchy type equations related to some singular associative operations. (English summary) **97h:39015**
Ebanks, Bruce R. Fundamental equation of information revisited. (English summary) **97b:39041**
Haruki, Hiroshi (*with* Rassias, Themistocles M.) A new analogue of Gauss' functional equation. (English summary) **97a:39025**
— (*with* Rassias, Themistocles M.) New characterizations of some mean-values. (English summary) **97f:39026**
Kahlig, P. (*with* Matkowski, Janusz) Functional equations involving the logarithmic mean. (English and German summaries) **97e:39017**
Kannappan, P. L. (*with* Sahoo, P. K.) Characterization of polynomials and divided difference. (English summary) **97d:39010**

Karlin, Samuel Solutions of certain functional equations. (English summary) **97j:39016**
Marcu, Dănuț Note on a functional equation with application in physics. (English and Romanian summaries) **97a:39026**
Matkowski, Janusz *see* **Kahlig, P., 97e:39017**
Midura, Stanisław On solutions of systems of functional equations determining some subsemigroups of the group L_0^1. **97m:39005**
Moszner, Zenon Sur des fonctions des niveaux invariantement ordonnés. (French summary) [Functions with invariantly ordered level sets] **97f:39027**
Neamțu, Nicolae A qualitative study about Lobachevsky's functional equation. (English summary) **97b:39042**
Powers, Robert C. (*with* Riedel, Thomas; Sahoo, P. K.) On a model of plane geometry. (English and German summaries) **97k:39020**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 97a:39025** *and* **97f:39026**
Riedel, Thomas *see* **Powers, Robert C.; et al., 97k:39020**
Sahoo, P. K. *see* **Kannappan, P. L., 97d:39010** *and* **Powers, Robert C.; et al., 97k:39020**

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Aczél, János (*with* Rote, Günter; Schwaiger, Jens) Webs, iteration groups, and equivalent changes in probabilities. (English summary) **97m:39003**
Berg, Lothar (*with* Meinardus, Günter) The $3n + 1$ Collatz problem and functional equations. (English summary) **97e:11034**
— Generalized Euler-Frobenius polynomials. (English summary) **97a:39002**
Brzdęk, Janusz The Christensen measurable solutions of a generalization of the Gołąb-Schinzel functional equation. (English summary) **97k:39023**
Conze, J.-P. (*with* Raugi, A.) Fonctions propres pour un opérateur de transition. (French summary) [Eigenfunctions for a transition operator] **97g:60097**
Horadam, Alwyn F. *see* **Shannon, Anthony; et al., 97g:11023**
Kahlig, P. (*with* Matkowska, A.; Matkowski, Janusz) On a class of composite functional equations in a single variable. (English summary) **97k:39017**
Kairies, Hans-Heinrich Zu einem Charakterisierungssatz von E. Artin. [On a characterization theorem of E. Artin] **97a:33002**
— On the optimality of a characterization theorem for the gamma function using the multiplication formula. (English summary) **97a:33003**
Loh, R. P. *see* **Shannon, Anthony; et al., 97g:11023**
Matkowska, A. *see* **Kahlig, P.; et al., 97k:39017**
Matkowski, Janusz *see* **Kahlig, P.; et al., 97k:39017**
Meinardus, Günter *see* **Berg, Lothar, 97e:11034**
Melham, R. S. *see* **Shannon, Anthony; et al., 97g:11023**
Morawiec, Janusz Bounded solutions of Schilling's problem. (English summary) **97i:39009**
Raugi, A. *see* **Conze, J.-P., 97g:60097**
Rote, Günter *see* **Aczél, János; et al., 97m:39003**
Schwaiger, Jens *see* **Aczél, János; et al., 97m:39003**
Shannon, Anthony (*with* Loh, R. P.; Melham, R. S.; Horadam, Alwyn F.) A search for solutions of a functional equation. **97g:11023**
Sinopoulos, Pavlos Generalized sine equations. III. (English summary) **97f:39030**
Topa, Stefan Des systèmes d'équations différentielles linéaires d'ordre 1 et leurs liaisons avec des fonctions homogènes généralisées. [Systems of linear differential equations of order 1 and their connections with generalized homogeneous functions] **97k:35029**
Walorski, Janusz Convex solutions of the Schröder equation in Banach spaces. (English summary) **97c:39020**

39B32 Equations for complex functions [see also 30D05]

Bonk, Mario The characterization of theta functions by functional equations. **97b:39043**
Bukhshtaber, V. M. (*with* Kholodov, A. N.) Characteristic expansions and multiplicative addition theorems. (English summary) **97f:39028**
Dumas, Philippe (*with* Flajolet, Philippe) Asymptotique des récurrences mahlériennes: le cas cyclotomique. (English and French summaries) [Asymptotics of Mahler recurrences: the cyclotomic case] **97f:39029**
Flajolet, Philippe *see* **Dumas, Philippe, 97f:39029**
Gebert, Holger A direct proof of a theorem of K. Baron. (English summary) **97a:39027**
Gross, Fred (*with* Osgood, Charles F.) An extension of the corollary to Steinmetz's theorem. (English summary) **97b:39044**
Kholodov, A. N. *see* **Bukhshtaber, V. M., 97f:39028**
Liczberski, Piotr (*with* Połubiński, Jerzy) On some functional equation. (English summary) **97c:39017**
Osgood, Charles F. *see* **Gross, Fred, 97b:39044**
Pegis, Charles Rational solutions of a nonlinear functional equation related to Mahler's equation. **97b:39045**
Połubiński, Jerzy *see* **Liczberski, Piotr, 97c:39017**
Sinopoulos, Pavlos Generalized sine equations. III. (English summary) **97f:39030**
Stetkaer, Henrik On a signed cosine equation of N summands. (English summary) **97d:39011**

Items with secondary classifications in 39B32

Brillouet-Belluot, Nicole Multiplicative symmetry and related functional equations. (English summary) **97c:39015**
Hervé, Loïc Construction et régularité des fonctions d'échelle. (English and French summaries) [Construction and regularity of scaling functions] **97j:42015**
Johnson, Warren P. Some applications of the q-exponential formula. (English and French summaries) **97b:05015**
Koch, Hans (*with* Schenkel, Alain; Wittwer, Peter) Computer-assisted proofs in analysis and programming in logic: a case study. (English summary) **97k:39001**
Schenkel, Alain *see* **Koch, Hans; et al., 97k:39001**
Wittwer, Peter *see* **Koch, Hans; et al., 97k:39001**

39B42 Matrix and operator equations

Aczél, János Some recent applications of functional equations to the social and behavioral sciences. Further problems. (English summary) **97a:39028**
Colella, David *see* **Heil, Christopher, 97k:39021**
Heil, Christopher (*with* Colella, David) Matrix refinement equations: existence and uniqueness. (English summary) **97k:39021**
Székelyhidi, László On a characterization of linear operators. **97h:39016**
Wermuth, Edgar M. E. A remark on commuting operator exponentials. (English summary) **97g:39011**

Items with secondary classifications in 39B42

Aomoto, Kazuhiko (*with* Kato, Yoshifumi) Gauss decomposition of connection matrices for symmetric A-type Jackson integrals. **97c:32027**
Battyányi, Péter Jordan $*$-derivations with respect to the Jordan product. (English summary) **97d:47046**
Kato, Yoshifumi *see* **Aomoto, Kazuhiko, 97c:32027**
Suetin, Pavel K. Orthogonal polynomials in two variables in filtration theory of the two-dimensional digital signals. (English summary) **97j:33021**

39B52 Equations for functions with more general domains and/or ranges

Baron, Karol (*with* Chaljub-Simon, Alice; Volkmann, Peter) On functions having Cauchy differences in some prescribed sets. (English summary) **97k:39022**
Bil, Adam (*with* Tabor, Józef) On the stability of the Pexider and the Gauss-Pexider equations. (English and Polish summaries) **97b:39046**
Brzdęk, Janusz The Christensen measurable solutions of a generalization of the Gołąb-Schinzel functional equation. (English summary) **97k:39023**
— On almost additive functions. (English summary) **97j:39017**
— The Cauchy and Jensen differences on semigroups. (English summary) **97b:39047**
— On functionals which are orthogonally additive modulo **Z**. (English summary) **97h:39017**
— On orthogonally exponential and orthogonally additive mappings. (English summary) **97i:39010**
Chaljub-Simon, Alice *see* **Baron, Karol; et al., 97k:39022**
Chamberland, Marc Mean value integral equations and the Helmholtz equation. (English summary) **97f:39031**
Chojnacki, Wojciech Group representations of bounded cosine functions. **97k:39024**
Ebanks, Bruce R. On the stability of multiplicative additive mappings. (English summary) **97i:39011**
— (*with* Ng, C. T.) Characterizations of quadratic differences. (English summary) **97c:39018**
— *see also* **Zhong, Ju Kang; et al., 97b:39048**
Ger, Roman On a factorization of mappings with a prescribed behaviour of the Cauchy difference. (English summary) **97f:39032**
Haruki, Shigeru *see* **Tsutsumi, Akira, 97k:39025**
Mach, Andrzej On solutions of the translation equation commuting with some function. (English summary) **97f:39033**
Neamțu, Nicolae About Lobachevsky's functional equations on **C**. (English summary) **97c:39019**
Ng, C. T. *see* **Zhong, Ju Kang; et al., 97b:39048** *and* **Ebanks, Bruce R., 97c:39018**
Sahoo, P. K. *see* **Zhong, Ju Kang; et al., 97b:39048**
Shul'man, E. V. Group representations and stability of functional equations. **97h:39018**
Sinopoulos, Pavlos Wilson's functional equation for vector and matrix functions. (English summary) **97f:39034**
Székelyhidi, László Stability properties of functional equations in several variables. **97d:39012**
Tabor, Józef *see* **Bil, Adam, 97b:39046**
Tsutsumi, Akira (*with* Haruki, Shigeru) On an application of hypoellipticity to solutions of functional equations. (English summary) **97k:39025**
Volkmann, Peter *see* **Baron, Karol; et al., 97k:39022**
Walorski, Janusz Convex solutions of the Schröder equation in Banach spaces. (English summary) **97c:39020**
Zeng, Wei Bin *see* **Zhong, Ju Kang; et al., 97b:39048**
Zhong, Ju Kang (*with* Ebanks, Bruce R.; Ng, C. T.; Sahoo, P. K.; Zeng, Wei Bin) On generalized rectangular and rhombic functional equations. **97b:39048**

Items with secondary classifications in 39B52

Bajger, Mariusz On a generalized Pexider equation connected with the iteration theory. (English summary) **97h:39014**
Bartlomiejczyk, Lech Some remarks on the Daróczy equation. (English summary) **97b:39039**
Bonk, Mario The characterization of theta functions by functional equations. **97b:39043**
Brillouet-Belluot, Nicole Multiplicative symmetry and related functional equations. (English summary) **97c:39015**
Brzdęk, Janusz On some conditional functional equations of Gołąb-Schinzel type. (English summary) **97g:39010**
Căprău, C. *see* **Găvruța, P.; et al., 97f:39035**
Domańska, Katarzyna Cauchy type equations related to some singular associative operations. (English summary) **97h:39015**
Dubois, Didier (*with* Fodor, János C.; Prade, Henri; Roubens, Marc) Aggregation of decomposable measures with application to utility theory. (English summary) **97g:90018**
Ebanks, Bruce R. Fundamental equation of information revisited. (English summary) **97b:39041**
Fidytek, Irena Stability of a system of generalized trigonometric equations. (English summary) **97b:39049**
Fodor, János C. *see* **Dubois, Didier; et al., 97g:90018**
Găvruța, P. (*with* Hossu, M.; Popescu, D.; Căprău, C.) On the stability of mappings and an answer to a problem of Th. M. Rassias. (English and French summaries) **97f:39035**
Ger, Roman (*with* Sikorska, Justyna) Stability of the orthogonal additivity. (English summary) **97b:46021**
Hossu, M. *see* **Găvruța, P.; et al., 97f:39035**

Jung, Soon-Mo On the Hyers-Ulam-Rassias stability of approximately additive mappings. (English summary) **97m:47105**
Lagarias, Jeffrey C. (*with* Wang, Yang[3]) Integral self-affine tiles in $\mathbf{R}^n$. I. Standard and nonstandard digit sets. (English summary) **97f:52031**
Lawson, Jimmie D. The earliest semigroup paper? **97b:01012**
Mach, Andrzej The general solution of the equation $\varphi(\varphi(\varphi(\alpha,x),y),z)=\varphi(\alpha,x\cdot\mu(y)\cdot z)$. **97m:20079**
Pearce, Paul A. *see* **Zhou, Yu Kui, 97a:82041**
Popescu, D. *see* **Găvruţa, P.; et al., 97f:39035**
Prade, Henri *see* **Dubois, Didier; et al., 97g:90018**
Reinfelds, Andrejs Partial decoupling for noninvertible mappings. (English summary) **97c:39007**
Roubens, Marc *see* **Dubois, Didier; et al., 97g:90018**
Sikorska, Justyna *see* **Ger, Roman, 97i:46021**
Székelyhidi, László On a characterization of linear operators. **97h:39016**
Tabor, Jacek Stability of the Cauchy equation on a restricted domain. (English summary) **97j:39020**
Wang, Yang[3] *see* **Lagarias, Jeffrey C., 97f:52031**
Zhou, Yu Kui (*with* Pearce, Paul A.) Solution of functional equations of restricted $A_{n-1}^{(1)}$ fused lattice models. (English summary) **97a:82041**

39B62 Systems of functional equations

Dyjak, Czesław BV-solutions of some systems of nonlinear functional equations. (English summary) **97j:39018**
Fldytek, Irena Stability of a system of generalized trigonometric equations. (English summary) **97b:39049**
Leśniak, Zbigniew On the system of the Abel equations on the plane. (English summary) **97b:39050**
Matkowski, Janusz On a system of simultaneous iterative functional equations. (English summary) **97a:39029**
Sun, Yong Qiang (*with* Yuan, Hua Qiang) Expansion solutions of nonlinear redundant systems of functional equations. (Chinese. English and Chinese summaries) **97a:39030**
Yuan, Hua Qiang *see* **Sun, Yong Qiang, 97a:39030**

Items with secondary classifications in 39B62

Bukhshtaber, V. M. (*with* Krichever, Igor Moiseevich) Multidimensional vector addition theorems and the Riemann theta functions. **97i:14028**
Čermák, Jan Note on simultaneous solutions of a system of Schröder's equations. (English summary) **97b:39037**
Krichever, Igor Moiseevich *see* **Bukhshtaber, V. M., 97i:14028**
Liczberski, Piotr (*with* Połubiński, Jerzy) On some functional equation. (English summary) **97c:39017**
Liu, Yan Sheng Asymptotic equilibrium of differential equations in Banach spaces. (Chinese. Chinese summary) **97e:34088**
Połubiński, Jerzy *see* **Liczberski, Piotr, 97c:39017**

39B72 Inequalities involving unknown functions [see also 26A51, 26Dxx]

Căprău, C. *see* **Găvruţa, P.; et al., 97f:39035**
Förg-Rob, Wolfgang (*with* Nikodem, Kazimierz; Páles, Zsolt) Separation by monotonic functions. (English summary) **97k:39026**
Găvruţa, P. (*with* Hossu, M.; Popescu, D.; Căprău, C.) On the stability of mappings and an answer to a problem of Th. M. Rassias. (English and French summaries) **97f:39035**
Hossu, M. *see* **Găvruţa, P.; et al., 97f:39035**
Losonczi, László On the stability of Hosszú's functional equation. (English summary) **97j:39019**
Nikodem, Kazimierz *see* **Förg-Rob, Wolfgang; et al., 97k:39026**
Páles, Zsolt *see* **Förg-Rob, Wolfgang; et al., 97k:39026**
Popescu, D. *see* **Găvruţa, P.; et al., 97f:39035**
Radenović, Stojan *see* **Simić, Slavko, 97k:39027**
Simić, Slavko (*with* Radenović, Stojan) A functional inequality. (English summary) **97k:39027**
Tabor, Jacek Stability of the Cauchy equation on a restricted domain. (English summary) **97j:39020**

Items with secondary classifications in 39B72

Chia, T. T. (*with* Tan, B. L.) Properties of the class of power-logistic maps. (English summary) **97k:58102**
Fldytek, Irena Stability of a system of generalized trigonometric equations. (English summary) **97b:39049**
Ger, Roman (*with* Sikorska, Justyna) Stability of the orthogonal additivity. (English summary) **97i:46021**
Guerberoff, Gustavo R. (*with* Raggio, Guido A.) Remarks on: "Thermodynamic stability conditions for the Tsallis and Rényi entropies" [Phys. Lett. A **198** (1995), no. 2, 119–121; MR 96a:82019] by J. D. Ramshaw. (English summary) **97d:82034**
Matkowski, Janusz The converse of a generalized Hölder inequality. (English summary) **97m:26025**
Raggio, Guido A. *see* **Guerberoff, Gustavo R., 97d:82034**
(Ramshaw, John D.) *see* **Guerberoff, Gustavo R., 97d:82034**
Shul'man, E. V. Group representations and stability of functional equations. **97h:39018**
Sikorska, Justyna *see* **Ger, Roman, 97i:46021**
Tan, B. L. *see* **Chia, T. T., 97k:58102**

39B99 None of the above, but in this section

Dai, Xinrong (*with* Huang, Daren; Sun, Qiyu) Some properties of five-coefficient refinement equation. **97k:39028**
Deeba, Elias (*with* de Korvin, André; Xie, Shishen) Pexider functional equations—their fuzzy analogs. (English summary) **97h:39019**
Derfel, Gregory (*with* Schilling, Rolf) Spatially chaotic configurations and functional equations with rescaling. (English summary) **97i:39012**
Đorđević, D. R. *see* **Đorđević, L. N.; et al., 97a:39031**
Đorđević, L. N. (*with* Đorđević, D. R.; Ilić, Z. A.) A remark on convolution polynomials. (English summary) **97a:39031**
Huang, Daren *see* **Dai, Xinrong; et al., 97k:39028**
Ilić, Z. A. *see* **Đorđević, L. N.; et al., 97a:39031**
de Korvin, André *see* **Deeba, Elias; et al., 97h:39019**
Mond, B. (*with* Pečarić, Josip E.) Remarks on a quasi-mean functional equation. **97a:39032**
Pečarić, Josip E. *see* **Mond, B., 97a:39032**
Schilling, Rolf *see* **Derfel, Gregory, 97i:39012**
Sun, Qiyu *see* **Dai, Xinrong; et al., 97k:39028**
Xie, Shishen *see* **Deeba, Elias; et al., 97h:39019**

Items with secondary classifications in 39B99

Azbelev, N. V. (*with* Ermolaev, M. B.; Simonov, P. M.) On the stability of functional-differential equations with respect to the first approximation. (Russian) **97d:34087**
Ermolaev, M. B. *see* **Azbelev, N. V.; et al., 97d:34087**
Rao, Calyampudi Radhakrishna (*with* Shanbhag, D. N.) ★ Choquet-Deny type functional equations with applications to stochastic models. (English summary) **97d:60020**
Shanbhag, D. N. *see* **Rao, Calyampudi Radhakrishna, 97d:60020**
Simonov, P. M. *see* **Azbelev, N. V.; et al., 97d:34087**

40–XX Sequences, series, summability

Tripathy, B. C. Statistical convergence in normed linear spaces [MR 97f:40007]. (English summary) (*see* **97j:00027**)

40–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 40–01

Shafranov, E. V. *see* **Sviridyuk, G. A., 97e:00001**

Sviridyuk, G. A. (*with* Shafranov, E. V.) ★ Поверхностные интегралы. Функциональные последовательности и ряды. (Russian. Russian summary) [Surface integrals. Function sequences and series] **97e:00001**

40–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 40–02

Candelpergher, Bernard Développements de Taylor et sommation des séries. (English summary) [Taylor expansion and summation of series] **97b:40007**

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Basu, Sanjib[1] *see* **Ganguly, D. K., 97j:40001**

Bencze, Mihály *see* **Tóth, László, 97e:40001**

Burton, Emil On some convergent series.

Ferdausi, Razina (*with* Saxena, Ashok) On uniform ($\hat{}$) summability. (English summary) **97f:40001**

Fisher, Brian *see* **Pehlivan, Serpil, 97b:40002**

Ganguly, D. K. (*with* Basu, Sanjib[1]) On some properties of sub-series. (English summary) **97j:40001**

Ghosh, Dipta Bibhu *see* **Lahiri, B. K., 97g:40001**

Gurin, Leo S. A problem. **97h:40001**

Lahiri, B. K. (*with* Ghosh, Dipta Bibhu) Some properties of infinite series. **97g:40001**

— (*with* Ghosh, Dipta Bibhu) A convergence test.

Länger, Helmut An elementary proof of the convergence of iterated exponentials. (German summary)

Liu, De Xiang (*with* Liu, Shao Wu) A sufficient condition for nonuniform convergence of series and integrals. (Chinese. English and Chinese summaries)

Liu, Shao Wu *see* **Liu, De Xiang**

Miller, Harry I. (*with* Schnitzer, Franz Josef) Measure and category—some non-analogues. (English summary) **97d:40001**

Mond, B. (*with* Pečarić, Josip E.) A short proof of alternative divergence criteria. **97b:40001**

Pečarić, Josip E. *see* **Mond, B., 97b:40001**

Pehlivan, Serpil (*with* Fisher, Brian) Some sequence spaces defined by a modulus. (English summary) **97b:40002**

Pinkham, Roger S. Mathematics and modern technology.

Saxena, Ashok *see* **Ferdausi, Razina, 97f:40001**

Schnitzer, Franz Josef *see* **Miller, Harry I., 97d:40001**

Shang, Shi Min A test for convergence of sequences of positive terms using characteristic number sequences. (Chinese. English and Chinese summaries)

Sidi, Avram Extension and completion of Wynn's theory on convergence of columns of the epsilon table. (English summary) **97g:40002**

Tong, Jingcheng Integral test and convergence of positive series. **97g:40003**

Tóth, László (*with* Bencze, Mihály) The asymptotic expansion of Traian Lalescu's series. **97e:40001**

Vojtáš, Peter On ω^* and absolutely divergent series. (English summary) **97a:40001**

Wu, Min[1] Hausdorff dimension of α-cutset of some random series. (English summary) **97k:40001**

Ye, Chang Qing New definitions of the upper and lower limits of a sequence, and their applications. (Chinese. English and Chinese summaries)

Items with secondary classifications in 40A05

Ash, J. Marshall (*with* Wang, Gang[2]) One- and two-dimensional Cantor-Lebesgue type theorems. (English summary) **97h:42006**

Baron, Simson (*with* Joó, István) On the influence of Lebesgue functions on the summability of double function series. **97c:40002**

Bilgin, Tunay On the statistical convergence. (English summary) **97g:40007**

Braaksma, B. L. J. (*with* Faber, B. F.) Multisummability for some classes of difference equations. (English and French summaries) **97e:39002**

Drewnowski, Lech (*with* Florencio, Miguel; Paúl, Pedro J.) Some new classes of rings of sets with the Nikodym property. (English summary) **97m:28002**

Faber, B. F. *see* **Braaksma, B. L. J., 97e:39002**

Faure, Claude-Alain (*with* Mawhin, Jean L.) Integration over unbounded multidimensional intervals. (English summary) **97m:26017**

Florencio, Miguel *see* **Drewnowski, Lech; et al., 97m:28002**

Grosjean, Carl C. Solving some problems of advanced analytical nature posed in the SIAM-Review. II. (English summary) **97k:05018a**

— Errata to the paper: "Solving some problems of advanced analytical nature posed in the SIAM-review. II". **97k:05018b**

Joó, István *see* **Baron, Simson, 97c:40002**

Mawhin, Jean L. *see* **Faure, Claude-Alain, 97m:26017**

Osborne, M. Scott Convergence and Kolmogorov dimension. (English summary) **97b:54045**

Paúl, Pedro J. *see* **Drewnowski, Lech; et al., 97m:28002**

Ptak, Marek (*with* Rutkowska, A.; Sowa, A.) On the inverse of two variables power series. (English summary) **97d:40003**

Rogalski, Marc De Leibniz à Euler: Cartier, Dumont, Krivine, Titchmarsh et les autres .... La relation $1+\frac{1}{2^2}+\frac{1}{3^2}+\frac{1}{5^2}+\frac{1}{7^2}+\cdots=2(1-\frac{1}{3}+\frac{1}{5}-\frac{1}{7}+\cdots)^2$. [From Leibniz to Euler: Cartier, Dumont, Krivine, Titchmarsh and others .... The relation $1+\frac{1}{2^2}+\frac{1}{3^2}+\frac{1}{5^2}+\frac{1}{7^2}+\cdots=2(1-\frac{1}{3}+\frac{1}{5}-\frac{1}{7}+\cdots)^2$] **97g:01010**

Rutkowska, A. *see* **Ptak, Marek; et al., 97d:40003**

Sowa, A. *see* **Ptak, Marek; et al., 97d:40003**

Wang, Gang[2] *see* **Ash, J. Marshall, 97h:42006**

Yang, Bi Cheng A refinement of the general Hilbert double series theorem. (Chinese. English and Chinese summaries) **97h:26014**

40A10 Convergence and divergence of integrals

Jones, D. S. Hadamard's finite part. (English summary) **97m:40001**

Items with secondary classifications in 40A10

Fleischer, Isidore The convergence content of the integral convergence theorem. **97f:26009**

40A15 Convergence and divergence of continued fractions [see also 30B70]

Bodnar, D. Ī. (*with* Waadeland, Haakon; Kuchminskaya, Kh. I.; Sus′, O. N.) On the stability of branching continued fractions. (Ukrainian. Ukrainian summary) **97j:40002**

Bultheel, Adhemar *see* **Levrie, P., 97g:40004**

Grosjean, Carl C. Stieltjes continued fraction anomalies. I. (English and Dutch summaries) **97d:40002**

Israeli, Moshe *see* **Shapira, Yair; et al., 97f:40002**

Kuchminskaya, Kh. I. *see* **Bodnar, D. Ī.; et al., 97j:40002**

Levrie, P. (*with* Bultheel, Adhemar) Matrix continued fractions related to first-order linear recurrence systems. (English summary) **97g:40004**

Lorentzen, Lisa Computation of limit periodic continued fractions. A survey. (English summary) **97c:40001**

Nakayama, Isao Acceleration methods for convergence of continued fraction expansions and probability distribution functions. (Japanese) (*see* **97b:00015**)

Shapira, Yair (*with* Sidi, Avram; Israeli, Moshe) Optimal error bounds for convergents of a family of continued fractions. (English summary) **97f:40002**

Sidi, Avram *see* **Shapira, Yair; et al., 97f:40002**

Sus′, O. N. *see* **Bodnar, D. Ī.; et al., 97j:40002**

Waadeland, Haakon *see* **Bodnar, D. Ī.; et al., 97j:40002**

Items with secondary classifications in 40A15

Ahlbrandt, Calvin D. A Pincherle theorem for matrix continued fractions. (English summary) **97b:41031**

Bender, Carl M. (*with* Vinson, Jade P.) Summation of power series by continued exponentials. (English summary) **97i:30005**

Cuyt, Annie (*with* Driver, Kathy; Lubinsky, Doron S.) A direct approach to convergence of multivariate, nonhomogeneous, Padé approximants. (English summary) **97g:41018**

Dai, Zongduo (*with* Zeng, Kencheng) Refined convergents to the associated continued fractions for binary sequences. (English summary) **97m:94039**

Driver, Kathy *see* **Cuyt, Annie; et al., 97g:41018**

Gill, John A note on bounds for the derivatives of continued fractions. (English summary) **97g:30003**

Gupta, Dharma P. (*with* Masson, David R.) Contiguous relations, continued fractions and orthogonality: an ${}_8\varphi_7$ model. (English summary) **97a:33046**

Lorentzen, Lisa A convergence question inspired by Stieltjes and by value sets in continued fraction theory. (English summary) **97b:30038**

Lubinsky, Doron S. *see* **Cuyt, Annie; et al., 97g:41018**

Masson, David R. The last of the hypergeometric continued fractions. (English summary) **97a:33049**

— *see also* **Gupta, Dharma P., 97a:33046**

Reid, Walter M. On factorable twin-convergence regions corresponding to best twin-value regions for continued fractions $K(a_n/1)$. (English summary) **97e:30006**

Vinson, Jade P. *see* **Bender, Carl M., 97i:30005**

Zeng, Kencheng *see* **Dai, Zongduo, 97m:94039**

40A20 Convergence and divergence of infinite products

Jung, Soon-Mo On transformation of infinite products. **97g:40005**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Items with secondary classifications in 40A25

Malčeski, R. *see* **Trenčevski, Kostadin, 97f:44006**

Mortreux, P. (*with* Prévost, M.) An acceleration property of the E-algorithm for alternate sequences. (English summary) **97k:65008**

Prévost, M. *see* **Mortreux, P., 97k:65008**

Trenčevski, Kostadin (*with* Malčeski, R.) On one transformation in the operational calculus. **97f:44006**

Zayed, Ahmed I. New summation formulas for multivariate infinite series by using sampling theorems. (English summary) **97k:33024**

40A30 Convergence and divergence of series and sequences of functions

Settu, S. A. Series to series regular transformations and uniform convergence. (English

summary) **97k:40002**

Items with secondary classifications in 40A30

Batt, J. (*with* Deshpande, M. V.) Weak convergence and weak compactness in the space of almost periodic functions on the real line. (English summary) **97k:42020**
Brück, Rainer Summability of sequences of interpolatory polynomials in the roots of unity: rate of convergence. (English summary) **97f:30051**
Chui, Charles K. (*with* Shi, Xianliang) On the convergence of localized cosine series. (English summary) **97k:42056**
Deshpande, M. V. *see* **Batt, J., 97k:42020**
Écalle, Jean ★ Introduction aux fonctions analysables et preuve constructive de la conjecture de Dulac. (French. French summary) [Introduction to analyzable functions and constructive proof of the Dulac conjecture] **97f:58104**
Lesigne, Emmanuel On the sequence of integer parts of a good sequence for the ergodic theorem. (English summary) **97c:28039**
Sharma, Araohana *see* **Verma, Alok, 97k:33015**
Sharma, Manisha Approximation to a function by Norlund means of its Fourier Jacobi series. (Hindi. English and Hindi summaries)
Shi, Xianliang *see* **Chui, Charles K., 97k:42056**
Verma, Alok (*with* Sharma, Araohana) On the Cesàro summability of ultraspherical series. (English summary) **97k:33015**

40A99 None of the above, but in this section

Omey, Edward On the asymptotic behaviour of two sequences related by a convolution equation. (English summary) **97h:40002**

Items with secondary classifications in 40A99

Barbu, D. *see* **Buşe, C.; et al., 97d:26016**
Buşe, C. (*with* Dragomir, Sever Silvestru; Barbu, D.) The convergence of some sequences connected to Hadamard's inequality. **97d:26016**
Dragomir, Sever Silvestru *see* **Buşe, C.; et al., 97d:26016**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Baron, Simson (*with* Joó, István) On the influence of Lebesgue functions on the summability of double function series. **97c:40002**
Joó, István *see* **Baron, Simson, 97c:40002**
Kadets, M. I. On the absolute, perfect and unconditional convergence of double series. (Russian)
Móricz, Ferenc (*with* Rhoades, B. E.) Double weighted mean methods equivalent to $(C, 1, 1)$. (English summary) **97b:40003**
Ptak, Marek (*with* Rutkowska, A.; Sowa, A.) On the inverse of two variables power series. (English summary) **97d:40003**
Rhoades, B. E. *see* **Móricz, Ferenc, 97b:40003**
Rutkowska, A. *see* **Ptak, Marek; et al., 97d:40003**
Sowa, A. *see* **Ptak, Marek; et al., 97d:40003**

Items with secondary classifications in 40B05

Faure, Claude-Alain (*with* Mawhin, Jean L.) Integration over unbounded multidimensional intervals. (English summary) **97m:26017**
Mawhin, Jean L. *see* **Faure, Claude-Alain, 97m:26017**
Ortner, Norbert (*with* Wagner, Peter[2]) Series, the convergence of which should be interpreted in the sense of L. Schwartz's distributions. (English summary) **97i:33003**
Wagner, Peter[2] *see* **Ortner, Norbert, 97i:33003**

40Cxx General summability methods

40C05 Matrix methods

Ahmad, Z. U. (*with* Saifi, A. H.) Regular summability and generalised almost convergence. (English summary) **97g:40006**
— *see also* **Savaş, Ekrem, 97c:40003**
DeFranza, J. (*with* Zeller, K.) Erratum to: "Hardy-Bohr positivity" [Proc. Amer. Math. Soc. **123** (1995), no. 12, 3783–3788; MR 96b:40002]. **97d:40004**
Demirci, K. Strong A-summability and A-statistical convergence. (English summary) **97i:40001**
Khan, F. M. (*with* Rahman, M. F.) Matrix transformations on Cesàro sequence spaces of a nonabsolute type. (English summary) **97m:40002**
Kuttner, Brian (*with* Parameswaran, Mangalam R.) A class of weighted means as potent conservative methods. **97j:40003**
Parameswaran, Mangalam R. *see* **Kuttner, Brian, 97j:40003**
Rahman, M. F. *see* **Khan, F. M., 97m:40002**
Saifi, A. H. *see* **Ahmad, Z. U., 97g:40006**
Savaş, Ekrem (*with* Ahmad, Z. U.) Matrix transformations in some sequence spaces. (English and Turkish summaries) **97c:40003**
Shrivastava, U. K. *see* **Verma, S. K., 97k:40004**
Swartz, Charles The transpose of a summability matrix. (English summary) **97k:40003**
Verma, S. K. (*with* Shrivastava, U. K.) On matrix summability of orthonormal series. (Hindi. English and Hindi summaries) **97k:40004**
Wood, Bruce On summability methods based on power series. (English summary) **97f:40003**
Zeller, K. *see* **DeFranza, J., 97d:40004**

Items with secondary classifications in 40C05

Bilgin, Tunay Note on strong A_α-summability. (English summary) **97j:40004**
— Matrix transformations in some sequence spaces. (English and Turkish summaries) **97h:47020**
Das, Gokulananda *see* **Savaş, Ekrem, 97m:26004**
Díaz Madrigal, Santiago Steinhaus summability theorem revisited. **97g:46020**
Florencio, Miguel (*with* Paúl, Pedro J.; Virués, J. M.) On the Mikusiński-Antosik diagonal theorem. (English summary) **97f:46012**
Hwang, Hong Taek (*with* Yoo, Won Sok) An improved version of Vitali-Hahn-Saks theorem. **97m:28014**
Kanovei, Vladimir (*with* Reeken, Michael) Summation of divergent series from the nonstandard point of view. (English summary) **97j:03124**
Leibowitz, G. M. Remarks on the article: "Norm inequalities which yield inclusions for Euler sequence spaces" [Comput. Math. Appl. **30** (1995), no. 3-6, 383–387; MR 96f:46008] by R. N. Mohapatra, F. L. Salzmann III and D. L. Ross. (English summary) **97c:46011**
(Mohapatra, Ram Narayan) *see* **Leibowitz, G. M., 97c:46011**
Nappus, Anneli (*with* Sõrmus, Tamara) Einige verallgemeinerte Matrixverfahren. (English, German and Estonian summaries) [Some generalized matrix methods] **97m:40008**
Paúl, Pedro J. *see* **Florencio, Miguel; et al., 97f:46012**
Reeken, Michael *see* **Kanovei, Vladimir, 97j:03124**
(Ross, David Louis) *see* **Leibowitz, G. M., 97c:46011**
(Salzmann, Frank L., III) *see* **Leibowitz, G. M., 97c:46011**
Savaş, Ekrem (*with* Das, Gokulananda) On the $\mathscr{A}$-continuity of real functions. (English and Turkish summaries) **97m:26004**
Sõrmus, Tamara *see* **Nappus, Anneli, 97m:40008**
Tammeraid, Ivar On the comparison of Tauberian remainder theorems. (English and Estonian summaries) **97m:40004**
Virués, J. M. *see* **Florencio, Miguel; et al., 97f:46012**
Yoo, Won Sok *see* **Hwang, Hong Taek, 97m:28014**

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Delange, Hubert Sur un certain procédé de sommation des séries divergentes. (French summary) [On a certain summation procedure for divergent series] **97h:40002**

40Dxx Direct theorems on summability

40D05 General theorems

Items with secondary classifications in 40D05

Demirci, K. Strong A-summability and A-statistical convergence. (English summary) **97i:40001**
Nappus, Anneli (*with* Sõrmus, Tamara) Einige verallgemeinerte Matrixverfahren. (English, German and Estonian summaries) [Some generalized matrix methods] **97m:40008**
Sõrmus, Tamara *see* **Nappus, Anneli, 97m:40008**
Yardimci, S. Core theorems for real bounded sequences. (English summary) **97k:40005**

40D09 Structure of summability fields

Tripathy, B. C. Maximal group of triangular conservative matrices. (English summary) (*see* **97j:00027**)

40D15 Convergence factors and summability factors

Choudhary, Damyanti *see* **Pathak, Hemant Kumar, 97d:40005**
Pathak, Hemant Kumar (*with* Choudhary, Damyanti) $|\overline{N}, P_n; \delta|_k$ summability factor of infinite series. (English summary) **97d:40005**

Items with secondary classifications in 40D15

Baron, Simson (*with* Kiesel, Rüdiger) Absolute φ-summability factors with a power for A^0-methods. (English summary) **97f:40004**
Bor, Hüseyin On the absolute summability factors and absolute summability methods. (English summary) **97d:40006**
Kiesel, Rüdiger *see* **Baron, Simson, 97f:40004**

40D20 Summability and bounded fields of methods

Items with secondary classifications in 40D20

Kuttner, Brian (*with* Parameswaran, Mangalam R.) A class of weighted means as potent conservative methods. **97j:40003**
Parameswaran, Mangalam R. *see* **Kuttner, Brian, 97j:40003**

40D25 Inclusion and equivalence theorems

Ahmad, Z. U. *see* **Malkowsky, Eberhard, 97e:40002**
Bilgin, Tunay On the statistical convergence. (English summary) **97g:40007**
Kiesel, Rüdiger On scales of summability methods. (English summary) **97b:40004**
Koik, Enno Inclusion theorems for some sequence spaces defined by a sequence of moduli. **97a:40003**
Loone, Leiki Inclusion between the cores concerning summability methods (R, p_k), (J, p_k) and (J_α, p_k). (Estonian summary)
Malkowsky, Eberhard (*with* Ahmad, Z. U.) Matrix transformations between FK-spaces and the sequence spaces $m(\varphi)$ and $n(\varphi)$. (English summary) **97e:40002**
Nurcombe, J. R. Some relations between Nörlund and Abel summability. (English summary) **97c:40004**
Rhoades, B. E. A comparison theorem for weighted mean and Cesàro methods. (English summary) **97b:40002**

Stadtmüller, Ulrich On a family of summability methods and one-sided Tauberian conditions. (English summary) **97c:40005**
Yardimci, S. Core theorems for real bounded sequences. (English summary) **97k:40005**

Items with secondary classifications in 40D25

Bilgin, Tunay On strong A-summability defined by a modulus. (English summary) **97k:40007**
Bor, Hüseyin On the absolute summability factors and absolute summability methods. (English summary) **97d:40006**
Fisher, Brian *see* **Pehlivan, Serpil**, **97b:40002**
Kumar, Rajesh² *see* **Mittal, Madan Lal**, **97d:40007**
Mittal, Madan Lal (*with* Kumar, Rajesh²) A note on strong Nörlund summability. (English summary) **97d:40007**
Móricz, Ferenc (*with* Rhoades, B. E.) Double weighted mean methods equivalent to $(C, 1, 1)$. (English summary) **97b:40003**
Nurcombe, J. R. Inclusion theorems for strong and absolute Nörlund summability. (English summary) **97b:40006**
Pehlivan, Serpil (*with* Fisher, Brian) Some sequence spaces defined by a modulus. (English summary) **97b:40002**
Rhoades, B. E. *see* **Móricz, Ferenc**, **97b:40003**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Badiozzaman, A. J. (*with* Thorpe, B.) Some best possible Tauberian results for Abel and Cesàro summability. (English summary) **97e:40003**
— (*with* Thorpe, B.) Some best possible Tauberian results for Abel and Cesàro summability. II. **97i:40003**
Boos, Johann (*with* Leiger, Toivo) The signed weak gliding hump property. **97e:40004**
Das, Gokulananda A Tauberian theorem for quasi-Nörlund summability. (English summary) **97k:40006**
Johansson, B. I. A correction to a distributional Tauberian theorem of Ganelius. (English summary) **97b:40005**
Leiger, Toivo *see* **Boos, Johann**, **97e:40004**
Motzer, W. (*with* Stadtmüller, Ulrich) A Tauberian theorem concerning power series and Cesàro methods of summability. (English summary) **97m:40003**
Stadtmüller, Ulrich *see* **Motzer, W.**, **97m:40003**
Tammeraid, Ivar On the comparison of Tauberian remainder theorems. (English and Estonian summaries) **97m:40004**
Thorpe, B. *see* **Badiozzaman, A. J.**, **97e:40003** *and* **97i:40003**

Items with secondary classifications in 40E05

Çakalli, H. (*with* Thorpe, B.) Cesàro means in topological groups. **97m:40007**
Drozhzhinov, Yu. N. (*with* Zav'yalov, B. I.) Quasi-asymptotic expansion of a measure. (Russian. Russian summary) **97i:46076**
de Haan, Laurens (*with* Stadtmüller, Ulrich) Generalized regular variation of second order. (English summary) **97g:26001**
Inoue, Akihiko On Abel-Tauber theorems for Fourier cosine transforms. (English summary) **97f:42015a**
— An Abel-Tauber theorem for Fourier sine transforms. (English summary) **97f:42015b**
Kiesel, Rüdiger On scales of summability methods. (English summary) **97b:40004**
Stadtmüller, Ulrich On a family of summability methods and one-sided Tauberian conditions. (English summary) **97c:40005**
— *see also* **de Haan, Laurens**, **97g:26001**
Thorpe, B. *see* **Çakalli, H.**, **97m:40007**
Zav'yalov, B. I. *see* **Drozhzhinov, Yu. N.**, **97i:46076**

40E10 Growth estimates

Items with secondary classifications in 40E10

Nurcombe, J. R. Some relations between Nörlund and Abel summability. (English summary) **97c:40004**

40E15 Lacunary inversion theorems

Johansson, B. I. A Tauberian vanishing theorem. (Russian summary) **97c:40006**

40F05 Absolute and strong summability

Baron, Simson (*with* Kiesel, Rüdiger) Absolute φ-summability factors with a power for A^α-methods. (English summary) **97f:40004**
Bilgin, Tunay On strong A-summability defined by a modulus. (English summary) **97k:40007**
Bor, Hüseyin On the absolute summability factors and absolute summability methods. (English summary) **97d:40006**
— On $|\overline{N}, p_n|_k$ summability factors. (English and Arabic summaries) **97h:40003**
Chandra, Prem (*with* Kshirsagar, Varsha) Conditions for the absolute Euler summability of factored Jacobi series. (English summary) **97g:40008**
Chandra, Satish *see* **Sinha, Rajiv**
Kiesel, Rüdiger *see* **Baron, Simson**, **97f:40004**
Kshirsagar, Varsha *see* **Chandra, Prem**, **97g:40008**
Kumar, Rajesh² *see* **Mittal, Madan Lal**, **97d:40007**
Leindler, László On the newly generalized absolute Cesàro summability of orthogonal series. **97g:40009**
Mittal, Madan Lal (*with* Kumar, Rajesh²) A note on strong Nörlund summability. (English summary) **97d:40007**
Patel, S. L. *see* **Sharma, Sushil**
Sharma, Sushil (*with* Patel, S. L.) The absolute Cesàro summability of Legendre series. (English summary)
Sinha, Rajiv (*with* Chandra, Satish) On the absolute Nörlund summability factors of infinite series. (English summary)
Zhang, Pu² A note on strong summability of Fourier-Laplace series. (Chinese. English and Chinese summaries) **97d:40008**

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Bor, Hüseyin On absolute summability factors. (English summary) **97g:40010**
Fisher, Brian *see* **Pehlivan, Serpil**, **97b:40002**
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Móricz, Ferenc (*with* Rhoades, B. E.) Double weighted mean methods equivalent to $(C, 1, 1)$. (English summary) **97b:40003**
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— Some relations between Nörlund and Abel summability. (English summary) **97c:40004**
Pehlivan, Serpil (*with* Fisher, Brian) Some sequence spaces defined by a modulus. (English summary) **97b:40002**
Rhoades, B. E. *see* **Móricz, Ferenc**, **97b:40003**

40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Bor, Hüseyin On absolute summability factors. (English summary) **97g:40010**
Kuttner, Brian (*with* Parameswaran, Mangalam R.) The commutant problem for Cesàro matrices. **97k:40008**
Nurcombe, J. R. Inclusion theorems for strong and absolute Nörlund summability. (English summary) **97b:40006**
Parameswaran, Mangalam R. *see* **Kuttner, Brian**, **97k:40008**
Seyhan, Hikmet A relation between two summability methods. (English summary) **97d:40009**

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— (*with* Thorpe, B.) Some best possible Tauberian results for Abel and Cesàro summability. II. **97i:40003**
Chandra, Satish *see* **Sinha, Rajiv**
Das, Gokulananda A Tauberian theorem for quasi-Nörlund summability. (English summary) **97k:40006**
DeFranza, J. (*with* Zeller, K.) Erratum to: "Hardy-Bohr positivity" [Proc. Amer. Math. Soc. **123** (1995), no. 12, 3783–3788; MR 96b:40002]. **97d:40004**
Kiesel, Rüdiger On scales of summability methods. (English summary) **97b:40004**
Kumar, Rajesh² *see* **Mittal, Madan Lal**, **97d:40007**
Kuttner, Brian (*with* Parameswaran, Mangalam R.) A class of weighted means as potent conservative methods. **97j:40003**
Leindler, László On the newly generalized absolute Cesàro summability of orthogonal series. **97g:40009**
— On the newly generalized absolute Riesz summability of orthogonal series. (Russian summary) **97c:42055**
Li, Zhongkai Pointwise convergence of Fourier-Jacobi series. (English summary) **97m:42020**
Mittal, Madan Lal (*with* Kumar, Rajesh²) A note on strong Nörlund summability. (English summary) **97d:40007**
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Ray, Braja Kishore (*with* Sahoo, A. K.) Application of the absolute Euler method to some series related to Fourier series and its conjugate series. (English summary) **97d:42009**
Reimer, Manfred A short proof of a result of Kogbetliantz on the positivity of certain Cesàro means. **97g:33001**
Rhoades, B. E. A comparison theorem for weighted mean and Cesàro methods. (English summary) **97i:40002**
— *see also* **Móricz, Ferenc**, **97b:40003**
Sachan, Neeraja (*with* Shukla, Y. B.) The $(C, 1)$ transform and $(H, 1)(C, 1)$ summability of a conjugate derived Fourier series. (Hindi. English and Hindi summaries)
Sahoo, A. K. *see* **Ray, Braja Kishore**, **97d:42009**
Sao, Awanish Kumar *see* **Verma, Alok**, **97k:33016**
Sharma, Araohana *see* **Verma, Alok**, **97k:33015**
Shukla, Y. B. *see* **Sachan, Neeraja**
Sinha, Rajiv (*with* Chandra, Satish) On the absolute Nörlund summability factors of infinite series. (English summary)
Thorpe, B. *see* **Badiozzaman, A. J.**, **97e:40003** *and* **97i:40003**
Tripathy, B. C. Statistical convergence in normed linear spaces. (English summary) **97f:40007**
Verma, Alok (*with* Sharma, Araohana) On the Cesàro summability of ultraspherical series. (English summary) **97k:33015**
— (*with* Sao, Awanish Kumar) On absolute Cesàro summability of ultraspherical series. (Hindi. English and Hindi summaries) **97k:33016**
Wood, Bruce On summability methods based on power series. (English summary) **97f:40003**
Zeller, K. *see* **DeFranza, J.**, **97d:40004**

40G10 Abel, Borel and power series methods

Candelpergher, Bernard Développements de Taylor et sommation des séries. (English summary) [Taylor expansion and summation of series] **97b:40007**
Hamidi, Said Lien entre k-convergence et k-sommabilité. (English and French summaries) [Link between k-convergence and k-summability] **97e:40005**

Items with secondary classifications in 40G10

Caliceti, E. (*with* Grecchi, Vincenzo; Maioli, M.) Double wells: Nevanlinna analyticity, distributional Borel sum and asymptotics. (English summary) **97h:81049**
Delange, Hubert Sur un certain procédé de sommation des séries divergentes. (French summary) [On a certain summation procedure for divergent series] **97a:40002**
Grecchi, Vincenzo *see* **Caliceti, E.; et al., 97h:81049**
Immink, G. K. Multisummability and the Stokes phenomenon. (English summary) **97e:46052**
Kiesel, Rüdiger On scales of summability methods. (English summary) **97b:40004**
Maioli, M. *see* **Caliceti, E.; et al., 97h:81049**
Motzer, W. (*with* Stadtmüller, Ulrich) A Tauberian theorem concerning power series and Cesàro methods of summability. (English summary) **97m:40003**
Ortner, Norbert (*with* Wagner, Peter[2]) Series, the convergence of which should be interpreted in the sense of L. Schwartz's distributions. (English summary) **97i:33003**
Pathak, Hemant Kumar On the generalized Norlund summability of conjugate Fourier series. (English summary)
Stadtmüller, Ulrich *see* **Motzer, W., 97m:40003**
Wagner, Peter[2] *see* **Ortner, Norbert, 97i:33003**
Wood, Bruce On summability methods based on power series. (English summary) **97f:40003**

40H05 Functional analytic methods in summability

Ahmad, Z. U. (*with* Khan, Q. A.; Saifi, A. H.) On a class of infinite matrices and almost convergence. (English summary) **97f:40005**
Bilgin, Tunay Note on strong A_n-summability. (English summary) **97j:40004**
Khan, F. M. (*with* Khan, Mushir A.) Generalized Cesaro sequence spaces and related matrix transformations. (English summary) **97f:40006**
Khan, Mushir A. *see* **Khan, F. M., 97f:40006**
Khan, Q. A. *see* **Ahmad, Z. U.; et al., 97f:40005**
Kolk, Enno Matrix maps into the space of statistically convergent bounded sequences. (English and Estonian summaries) **97m:40005**
Malkowsky, Eberhard A note on the Köthe-Toeplitz duals of generalized sets of bounded and convergent difference sequences. (English summary) **97g:40011**
Nuray, Fatih On some new sequence spaces. (English summary) **97m:40006**
Saifi, A. H. *see* **Ahmad, Z. U.; et al., 97f:40005**
Savaş, Ekrem A note on paranormed sequence spaces and infinite matrices. (English summary) **97j:40005**
Tripathy, B. C. Statistical convergence in normed linear spaces. (English summary) **97f:40007**

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Ahmad, Z. U. *see* **Malkowsky, Eberhard, 97e:40002**
Basu, Sanjib[1] *see* **Ganguly, D. K., 97j:40001**
Bilgin, Tunay Matrix transformations in some sequence spaces. (English and Turkish summaries) **97h:47020**
Boos, Johann (*with* Leiger, Toivo) The signed weak gliding hump property. **97e:40004**
Cass, F. Peter On operators acting on convergent sequences in Banach spaces. (English summary) **97f:47024**
Demirci, K. Strong A-summability and A-statistical convergence. (English summary) **97i:40001**
Fisher, Brian *see* **Pehlivan, Serpil, 97b:40002**
Florencio, Miguel (*with* Paúl, Pedro J.; Virués, J. M.) On the Mikusiński-Antosik diagonal theorem. (English summary) **97f:46012**
Ganguly, D. K. (*with* Basu, Sanjib[1]) On some properties of sub-series. (English summary) **97j:40001**
Karadzhov, G. E. Riesz summability of Hermite series. **97j:33015**
Kolk, Enno Inclusion theorems for some sequence spaces defined by a sequence of moduli. **97a:40003**
Leiger, Toivo *see* **Boos, Johann, 97e:40004**
Malkowsky, Eberhard The continuous duals of the spaces $c_0(\Lambda)$ and $c(\Lambda)$ for exponentially bounded sequences Λ. (English summary) **97d:46005**
— (*with* Ahmad, Z. U.) Matrix transformations between FK-spaces and the sequence spaces $m(\varphi)$ and $n(\varphi)$. (English summary) **97e:40002**
Paúl, Pedro J. *see* **Florencio, Miguel; et al., 97f:46012**
Pechtl, A. Vector-valued integration in BK-spaces. (English summary) **97d:28011**
Pehlivan, Serpil (*with* Fisher, Brian) Some sequence spaces defined by a modulus. (English summary) **97b:40002**
Srivastava, B. K. *see* **Srivastava, J. K., 97b:46012**
Srivastava, J. K. (*with* Srivastava, B. K.) Generalized sequence space $c_0(X, \lambda, p)$. (English summary) **97b:46012**
Virués, J. M. *see* **Florencio, Miguel; et al., 97f:46012**

40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

Başarir, Metin On some new sequence spaces and related matrix transformations. (English summary) **97b:40008**
Çakalli, H. (*with* Thorpe, B.) Cesàro means in topological groups. **97m:40007**
Çolak, Rıfat *see* **Et, Mikail, 97b:40009**
Et, Mikail (*with* Çolak, Rıfat) On some generalized difference sequence spaces. (English summary) **97b:40009**
Musielak, Julian On some conservative nonlinear integral operators. (English and Polish summaries) **97j:40006**
Nappus, Anneli (*with* Sõrmus, Tamara) Einige verallgemeinerte Matrixverfahren. (English, German and Estonian summaries) [Some generalized matrix methods] **97m:40008**
Sõrmus, Tamara *see* **Nappus, Anneli, 97m:40008**
Swartz, Charles A general Hahn-Schur theorem. **97m:40009**
Thorpe, B. *see* **Çakalli, H., 97m:40007**

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Adams, Katherine M. *see* **Stanojević, Časlav V.; et al., 97j:46008**
Bu, Qing Ying (*with* Li, Yan Jie) The vector-valued sequence space $\Lambda[X]$ and its Köthe dual. IV. Hereditary properties. (Chinese. English and Chinese summaries) **97f:46016**
— *see also* **Wu, Cong Xin, 97f:46015**
Fleming, Daniel J. (*with* Magee, J. C.) FK-multiplier spaces. (English summary) **97h:46011**
Graser, D. L. *see* **Stanojević, Časlav V.; et al., 97j:46008**
Kolk, Enno Matrix maps into the space of statistically convergent bounded sequences. (English and Estonian summaries) **97m:40005**
Li, Yan Jie *see* **Bu, Qing Ying, 97f:46016**
Magee, J. C. *see* **Fleming, Daniel J., 97h:46011**
Orhan, Cihan FK spaces that include strongly A-summable sequences. **97b:46012**
Ranganayaki, P. *see* **Somasundaram, D., 97h:47029**
Solak, İhsan On difference sequences spaces generated by infinite matrices. (English summary)
Somasundaram, D. (*with* Ranganayaki, P.) Composition operators on some matrix spaces. (English summary) **97h:47029**
Stanojević, Časlav V. (*with* Graser, D. L.; Adams, Katherine M.) Gauss-Petrović linear functionals and slow oscillation in normed linear spaces. (English summary) **97j:46008**
— Slow oscillation in norm and structure of linear functionals. (English summary) **97j:46009**
Wu, Cong Xin (*with* Bu, Qing Ying) Vector-valued sequence space $\Lambda[X]$ and its Köthe dual. III. The GAK-property and convergence of sequences. (Chinese. English and Chinese summaries) **97f:46015**

41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

Items with secondary classifications in 41–XX

von Golitschek, Manfred *see* **Lorentz, George G.; et al., 97k:41002**
Lorentz, George G. (*with* von Golitschek, Manfred; Makovoz, Yuly) ★ Constructive approximation. **97k:41002**
Makovoz, Yuly *see* **Lorentz, George G.; et al., 97k:41002**

41–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Hou, Xiang Qian) *see* **Telyakovskiĭ, S. A.**
Telyakovskiĭ, S. A. Work on the theory of approximation of functions carried out at the Institute of Mathematics, USSR Academy of Sciences. I. (Chinese. Chinese summary) — Work on the theory of approximation of functions carried out at the Institute of Mathematics, USSR Academy of Sciences. II. (Chinese. English summary)
(Xue, Yin Chuan) *see* **Telyakovskiĭ, S. A.**

41–02 Research exposition (monographs, survey articles)

Agarwal, Ravi Prakash (*with* Wong, Patricia J. Y.) ★ Error inequalities in polynomial interpolation and their applications. (English summary) **97m:41001**
Babenko, Vladislav F. *see* **Korneĭchuk, N. P.; et al.**
Baker, George A., Jr. (*with* Graves-Morris, Peter) ★ Padé approximants. (English summary) **97h:41001**
Borwein, Peter (*with* Erdélyi, Tamás) ★ Polynomials and polynomial inequalities. **97e:41001**
(Boyanov, Borislav D.) *see* **Chakalov, Lyubomir, 97b:41001**
Chakalov, Lyubomir General quadrature formulae of Gaussian type. **97b:41001**
Erdélyi, Tamás *see* **Borwein, Peter, 97e:41001**
von Golitschek, Manfred *see* **Lorentz, George G.; et al., 97k:41002**
Graves-Morris, Peter *see* **Baker, George A., Jr., 97h:41001**
Korneĭchuk, N. P. (*with* Ligun, A. A.; Babenko, Vladislav F.) ★ Extremal properties of polynomials and splines.
Kowalski, Marek A. (*with* Sikorski, Krzysztof Aleksander; Stenger, Frank) ★ Selected topics in approximation and computation. **97k:41001**
Ligun, A. A. *see* **Korneĭchuk, N. P.; et al.**
Lorentz, George G. (*with* von Golitschek, Manfred; Makovoz, Yuly) ★ Constructive approximation. **97k:41002**
Makovoz, Yuly *see* **Lorentz, George G.; et al., 97k:41002**
Mastroianni, Giuseppe Boundedness of Lagrange operator in some functional spaces. A survey. (English summary) **97j:41001**
Olver, Frank W. J. ★ Asymptotics and special functions. (English summary) **97i:41001**
Sikorski, Krzysztof Aleksander *see* **Kowalski, Marek A.; et al., 97k:41001**
Stenger, Frank *see* **Kowalski, Marek A.; et al., 97k:41001**
Wong, Patricia J. Y. *see* **Agarwal, Ravi Prakash, 97m:41001**
Xu, Yuan[1] ★ Common zeros of polynomials in several variables and higher-dimensional quadrature. **97m:41002**

Items with secondary classifications in 41–02

Abdallah, C. T. *see* **Docampo, D.; et al., 97k:41054**
Babenko, Vladislav F. (*with* Ruban, V. I.) On the non-symmetric widths of classes of periodic functions. **97e:41061**
Brutman, L. Lebesgue functions for polynomial interpolation—a survey. (English summary) **97m:41003**
Docampo, D. (*with* Hush, D. R.; Abdallah, C. T.) Constructive function approximation: theory and practice. (English summary) **97k:41054**
(Hou, Xiang Qian) *see* **Telyakovskiĭ, S. A.**
Hush, D. R. *see* **Docampo, D.; et al., 97k:41054**
Jia, Rong-Qing Total positivity and nonlinear analysis. (English summary) **97m:41009**
Lubinsky, Doron S. Jackson and Bernstein theorems for exponential weights. **97m:41007**
Ruban, V. I. *see* **Babenko, Vladislav F., 97e:41061**
Telyakovskiĭ, S. A. Work on the theory of approximation of functions carried out at the Institute of Mathematics, USSR Academy of Sciences. I. (Chinese. Chinese summary) — Work on the theory of approximation of functions carried out at the Institute of Mathematics, USSR Academy of Sciences. II. (Chinese. English summary)
(Xue, Yin Chuan) *see* **Telyakovskiĭ, S. A.**

41–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 41–03

Bernstein, S. N. On the V. A. Markov theorem. **97i:01051**
(Bian, Gang) *see* **Qu, An Jing, 97c:01008**
Buts′, O. M. A.-B. P. Pshebors′kiĭ and his contribution to the development of the theory of best approximation. (Ukrainian. Ukrainian summary) **97b:01013**
(Pshebors′kiĭ, A.-B. P.) *see* **Buts′, O. M., 97b:01013**
Qu, An Jing Gang Bian's successive piecewise parabolic interpolation. (Chinese. English and Chinese summaries) **97c:01008**

Items listed otherwise than by author

Biography:
Pshebors′kiĭ, A.-B. P. *see* **Buts′, O. M., 97b:01013**

41–06 Proceedings, conferences, collections, etc.

(Leindler, László) *see* **Approximation theory and function series, 97h:41002**
(Móricz, Ferenc) *see* **Approximation theory and function series, 97h:41002**
(Révész, Sz. Gy.) *see* **Approximation theory and function series, 97h:41002**
(Szabados, J.) *see* **Approximation theory and function series, 97h:41002**
(Tandori, Károly) *see* **Approximation theory and function series, 97h:41002**
(Totik, Vilmos) *see* **Approximation theory and function series, 97h:41002**
(Vértesi, P.) *see* **Approximation theory and function series, 97h:41002**

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Approximation theory and function series ★ Approximation theory and function series. **97h:41002**
Birthday:
Tandori, Károly ★ Approximation theory and function series. **97h:41002**
Budapest ★ Approximation theory and function series. **97h:41002**
Conference:
Approximation Theory and Function Series ★ Approximation theory and function series. **97h:41002**

Items with secondary classifications in 41–06

(Ali, Rosihan M.) *see* **Computational methods and function theory, 97d:00016**
(Gasca, Mariano) *see* **Total positivity and its applications, 97f:00029**
(Micchelli, Charles A.) *see* **Total positivity and its applications, 97f:00029**
(Ruscheweyh, Stephan) *see* **Computational methods and function theory, 97d:00016**
(Saff, Edward B.) *see* **Computational methods and function theory, 97d:00016**

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Computational Methods and Function Theory ★ Computational methods and function theory 1994. **97d:00016**
Jaca ★ Total positivity and its applications. **97f:00029**
Meeting:
Total Positivity and its Applications ★ Total positivity and its applications. **97f:00029**
Moscow ★ Proceedings of the XX Workshop on Function Theory. **97d:00027**
Penang ★ Computational methods and function theory 1994. **97d:00016**
Proceedings:
Workshop on Function Theory ★ Proceedings of the XIX Workshop on Function Theory. **97c:00051**
— ★ Proceedings of the XX Workshop on Function Theory. **97d:00027**
Total positivity and its applications ★ Total positivity and its applications. **97f:00029**
Workshop:
Function Theory ★ Proceedings of the XIX Workshop on Function Theory. **97c:00051**
— ★ Proceedings of the XX Workshop on Function Theory. **97d:00027**

41A05 Interpolation [see also 42A15 and 65D05]

Agarwal, Ravi Prakash *see* **Wong, Patricia J. Y., 97a:41004**
Andersson, Lars-Erik (*with* Elfving, Tommy) Best constrained approximation in Hilbert space and interpolation by cubic splines subject to obstacles. (English summary) **97a:41001**
Bao, Yongguang On simultaneous approximation to a differentiable function and its derivative by inverse Pál-type interpolation polynomials. (English summary) **97a:41002**
Brutman, L. Lebesgue functions for polynomial interpolation—a survey. (English summary) **97m:41003**
Cavaretta, A. S. (*with* Selvaraj, C. R.; Sharma, Ambikeshwar) Lacunary interpolation by cosine polynomials. (English summary) **97h:41003**
Chen, Fa Lai A note on the convergence rates of Bézier nets. (Chinese. English and Chinese summaries)
Chen, Gang[3] The smoothness and dimension of fractal interpolation functions. (English summary) **97k:41003**
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— (*with* Ligun, A. A.) On a refinement of Jackson-type inequalities in the approximation of differentiable periodic functions by linear operators. (Russian) **97d:41015**
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Milovanović, Gradimir V. (*with* Rančić, L. Z.) An estimate for coefficients of polynomials in L^2 norm. II. (English summary) **97f:41015**
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— (*with* Erdélyi, Tamás) Questions about polynomials with $\{0, -1, +1\}$ coefficients: Research Problems 96-3. **97d:30005**
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Kozko, A. I. On Jackson-Nikolskiĭ inequalities for trigonometric polynomials in spaces with asymmetrical norms. (English summary) **97f:42003**
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Wang, He Ping (*with* Sun, Yong Sheng) Approximation of multivariate functions with a certain mixed smoothness by entire functions. (English summary) **97b:41035**
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41A20 Approximation by rational functions

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— (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) On the convergence of multipoint Padé-type approximants and quadrature formulas associated with the unit circle. (English summary) **97h:41029**
— (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Rates of convergence of multipoint rational approximants and quadrature formulas on the unit circle. (English summary) **97m:41012**
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Casciola, Giulio A recurrence relation for rational B-splines. (English summary) **97i:41021**
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Driver, Kathy (*with* Stahl, Herbert) Simultaneous rational approximants to Nikishin systems of two functions. (English summary) **97e:41031**
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— (*with* Ivanov, Ivan Velichkov; Kovacheva, Ralitza K.) On the convergence of rational functions of best uniform approximation with unbounded number of the poles. (English summary) **97c:41014**
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Levin, A. L. (*with* Saff, Edward B.) Erratum: "Optimal ray sequences of rational functions connected with the Zolotarev problem" [Constr. Approx. **10** (1994), no. 2, 235–273; MR 95j:41017].
Malozëmov, V. N. (*with* Pevnyĭ, A. B.) Explicit solution of a filtering problem by means of elliptic functions. (Russian. English and Russian summaries) **97c:41015**
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Xing, Fu Chong Direct theorems on best approximation by rational functions in the spaces H_q^p ($p \geq 1$, $1 < q \leq 2$). (Chinese. English and Chinese summaries) **97i:41023**
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Carnicer, J. M. (*with* García-Esnaola, M.; Peña, Juan Manuel) Convexity of rational curves and total positivity. (English summary) **97k:65043**
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Gu, Chuan Qing (*with* Zhu, Gong Qin) Matrix-valued rational approximation. (Chinese. English and Chinese summaries) **97c:65032**
Gugat, M. The Newton differential correction algorithm for rational Chebyshev approximation with constrained denominators. (English summary) **97m:65026**
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Kalyagin, V. A. The operator moment problem, vector continued fractions and an explicit form of the Favard theorem for vector orthogonal polynomials. (English summary) **97c:44002**
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Li, Yongming (*with* Cripps, Robert J.) Identification of inflection points and cusps on rational curves. (English summary)
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Pritsker, I. E. Ray sequences of Laurent-type rational functions. (English summary) **97j:30018**
Qiu, James Zhijian Approximation in the mean by rational functions. (English summary) **97g:30040**
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Rubel, Lee A. Uniform approximation by rational functions which all satisfy the same algebraic differential equation. (English summary) **97c:30045**
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Zhang, Qi Song (*with* Fang, Kui) A monotone, rational, linear interpolation spline function. (Chinese. English and Chinese summaries)

Zhang, Ren Jiang Approximation by a class of generalized rational operators. (Chinese. English and Chinese summaries)
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41A21 Padé approximation

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— (*with* Driver, Kathy; Lubinsky, Doron S.) Kronecker type theorems, normality and continuity of the multivariate Padé operator. (English summary) **97g:41019**
— (*with* Lubinsky, Doron S.) A de Montessus theorem for multivariate homogeneous Padé approximants. (English summary) **97h:41030**
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De Samblanx, Gorik (*with* Van Barel, Marc; Bultheel, Adhemar) Duality in vector Padé-Hermite approximation problems. (English summary) **97c:41017**
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Gilewicz, Jacek (*with* Magnus, Alphonse P.) Optimal inequalities of Padé approximant errors in the Stieltjes case: closing result. (English summary) **97i:41024**
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Graves-Morris, Peter (*with* Baker, George A., Jr.; Woodcock, C. F.) Cayley's theorem and its application in the theory of vector Padé approximants. (English summary) **97d:41020**
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Sadaka, R. Padé approximation of vector functions. (English summary) **97e:41035**
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41A36 Approximation by positive operators

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41A40 Saturation

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41A44 Best constants

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41A45 Approximation by arbitrary linear expressions

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41A46 Approximation by arbitrary nonlinear expressions; widths and entropy

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41A50 Best approximation, Chebyshev systems

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— On the equivalence of the saturation and Lipschitz classes in $L_p(Q)$. (English summary) **97g:46034**

Kubach, Peter On the inverse mean value property of harmonic functions on ellipses and best harmonic L^1-approximation. (English summary) **97a:31001**

Lu, Zhikang On approximation by Pál-type interpolation based on the zeros of Chebyshev polynomial of the second kind. (English summary) **97a:41003**

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Park, Sung Ho[1] (*with* Rhee, Hyang Joo) Characterization of best simultaneous approximation for a compact set. **97j:41015**

Pichugov, S. A. Approximation of contractions of periodic functions in the space L_p, $p < 1$. (Russian. English and Ukrainian summaries) **97d:42003**

Prophet, Michael Codimension one minimal projections onto the quadratics. (English summary) **97b:41009**

Rhee, Hyang Joo *see* **Park, Sung Ho[1], 97j:41015**

Saitoh, Saburou One approach to some general integral transforms and its applications. (English summary) **97j:44002**

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Tikhomirov, V. M. *see* **Kochurov, A. S., 97b:41027**

Tomić, Miloš Sur l'approximation par angle dans la métrique mixte. (French summary) [Approximation by angle in the mixed metric] **97g:41036**

Tourigny, Yves (*with* Baines, M. J.) Analysis of an algorithm for generating locally optimal meshes for L_2 approximation by discontinuous piecewise polynomials. (English summary) **97g:41007**

41A52 Uniqueness of best approximation

Items with secondary classifications in 41A52

Babenko, Vladislav F. (*with* Glushko, V. N.) On the uniqueness of elements of the best approximation and the best one-sided approximation in the space L_1. (English summary) **97k:41046**

Dyn, Nira Uniqueness of least-norm generalized monosplines induced by log-concave weight-functions. (English summary) **97k:41022**

Glushko, V. N. *see* **Babenko, Vladislav F., 97k:41046**

Park, Sung Ho[1] (*with* Rhee, Hyang Joo) One-sided best simultaneous L_1-approximation. **97f:41020**

Rhee, Hyang Joo *see* **Park, Sung Ho[1], 97f:41020**

41A55 Approximate quadratures

Babenko, Vladislav F. (*with* Rudenko, A. A.) Optimization of quadratures on classes of functions defined by differential operators with real spectrum. (Russian. English and Ukrainian summaries) **97m:41030**

Bokaev, N. A. (*with* Zhusupov, Zh. U.) On the error of a quadrature formula for some classes of functions. (Russian. English, Russian and Kazakh summaries) **97k:41049**

Boyanov, Borislav D. On a quadrature formula of Micchelli and Rivlin. (English summary) **97d:41031**

Brass, Helmut (*with* Petras, Knut) On a conjecture of D. B. Hunter. (English summary) **97f:41039**

Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Numerical quadratures on the unit circle. A survey with some new results. (English summary) **97a:41031**

Bykovskiĭ, V. A. Estimates for the deviations of optimal grids in the L_p-norm and the theory of quadrature formulas. (Russian. English summary) **97g:41044**

Cordero, Minerva (*with* Martin, Clyde Franklin; Miller, John D.) Gaussian quadrature for products of exponential functions. (English summary)

De Marchi, Stefano (*with* Vianello, Marco) Peano's kernel theorem for vector-valued functions and some applications. (English summary) **97b:41029**

Dietheim, Kai Definite quadrature formulae for Cauchy principal value integrals. (English summary) **97m:41031**

— A definiteness criterion for linear functionals and its application to Cauchy principal value quadrature. (English summary) **97c:41033**

Fang, Gen Sun (*with* Liu, Yongping) Optimal quadrature of the Sobolev class $W_1^r(\mathbf{R})$ defined on whole real axis. (English summary) **97h:41054**

Förster, K.-J. Comparison theorems for the variance of quadrature formulas. (English summary) **97j:41020**

González-Vera, Pablo (*with* Jiménez Paiz, M.; Orive Rodríguez, Ramón A.; López Lagomasino, Guillermo) On the convergence of quadrature formulas connected with multipoint Padé-type approximation. (English summary) **97e:41066**

— *see also* **Bultheel, Adhemar; et al., 97a:41031**

Gori Nicolò-Amati, Laura (*with* Micchelli, Charles A.) On weight functions which admit explicit Gauss-Turán quadrature formulas. (English summary) **97c:41034**

Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 97a:41031**

Jiménez Paiz, M. *see* **González-Vera, Pablo; et al., 97e:41066**

Kazakov, A. N. (*with* Lebedev, V. I.) Gauss-type quadrature formulas for a sphere that are invariant with respect to the dihedral group. (Russian) **97b:41030**

Klyuchnikov, Bogdan V. (*with* Reztsov, A. V.) A relation between cubature formulas and densest lattice packings. (English summary) **97g:41045**

Köhler, Peter A reduction method for linear functionals and its applications. (English summary) **97d:41032**

Korevaar, Jacob (*with* Meyers, J. L. H.) Spherical Faraday cage for the case of equal point charges and Chebyshev-type quadrature on the sphere. (English summary) **97g:41046**

Lebedev, V. I. *see* **Kazakov, A. N., 97b:41030**

Liu, Yongping *see* **Fang, Gen Sun, 97h:41054**

López Lagomasino, Guillermo *see* **González-Vera, Pablo; et al., 97e:41066**

Martin, Clyde Franklin *see* **Cordero, Minerva; et al.**

Meyers, J. L. H. *see* **Korevaar, Jacob, 97g:41046**

Micchelli, Charles A. *see* **Gori Nicolò-Amati, Laura, 97c:41034**

Miller, John D. *see* **Cordero, Minerva; et al.**

Njåstad, Olav *see* **Bultheel, Adhemar; et al., 97a:41031**

Novak, Erich (*with* Petras, Knut) Optimal stochastic quadrature formulas for convex functions. (English summary) **97h:41055**

Orive Rodríguez, Ramón A. *see* **González-Vera, Pablo; et al., 97e:41066**

Petras, Knut On the universality of the Gaussian quadrature formula. (English summary) **97k:41050**

— *see also* **Novak, Erich, 97h:41055** *and* **Brass, Helmut, 97b:41039**

Polovinkin, V. I. Realization of functionals in $L_q^{m*}(\Omega)$. (Russian. Russian summary) **97m:41032**

Reztsov, A. V. *see* **Klyuchnikov, Bogdan V., 97g:41045**

Rudenko, A. A. *see* **Babenko, Vladislav F., 97m:41030**

Sakai, Manabu *see* **Usmani, R. A., 97e:41069**

Schira, Thomas The remainder term for analytic functions of Gauss-Lobatto quadratures. (English summary) **97m:41033**

Shi, Ying Guang An answer to Problem 33 of P. Turán about Birkhoff interpolation. (English summary) **97e:41067**

— Generalized Gaussian Kronrod-Turán quadrature formulas. (English summary) **97e:41068**

— The generalized Markov-Stieltjes inequality for Birkhoff quadrature formulas. (English summary) **97g:41047**

Sloan, Ian H. (*with* Woźniakowski, Henryk) An intractability result for multiple integration. (English summary) **97i:41040**

Sugihara, Masaaki Optimality of the double exponential formula—functional analysis approach. (English summary) **97i:41041**

Suzuki, Chisato Two-point formulas in Hermite-Birkhoff quadratures. (English summary) **97k:41051**

Usmani, R. A. (*with* Sakai, Manabu) Numerical integration formulas based on iterated cubic splines. II. (English and German summaries) **97e:41069**

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Woźniakowski, Henryk *see* **Sloan, Ian H., 97i:41040**

Zhu, Yaochen On some multi-dimensional quadrature formulas with number-theoretic nets. III. (English summary) **97e:41070**

Zhusupov, Zh. U. *see* **Bokaev, N. A., 97k:41049**

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Ben Ghanem, Riadh (*with* Frappier, Clément) Spherical Bessel functions and explicit quadrature formula. (English summary) **97e:33005**

(Boyanov, Borislav D.) *see* **Chakalov, Lyubomir, 97b:41001**

Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) On the convergence of multipoint Padé-type approximants and quadrature formulas associated with the unit circle. (English summary) **97h:41029**

Chakalov, Lyubomir General quadrature formulae of Gaussian type. **97b:41001**

Chernaya, E. V. On the optimization of weighted cubature formulae on certain classes of continuous functions. (English summary) **97h:65026**

Cools, Ronald (*with* Sloan, Ian H.) Minimal cubature formulae of trigonometric degree. (English summary) **97a:65025**

Della Vecchia, B. Two new formulas for the numerical evaluation of the Hilbert transform. (English summary) **97m:65236**

Dietheim, Kai Uniform convergence of optimal order quadrature rules for Cauchy principal value integrals. (English summary) **97a:65026**

Ehrich, Sven A note on Peano constants of Gauss-Kronrod quadrature schemes. (English summary) **97c:65047**

Favati, Paola (*with* Lotti, Grazia; Romani, Francesco) New symmetric interpolatory quadrature formulas. (English summary)

Frappier, Clément *see* **Ben Ghanem, Riadh, 97e:33005**

González-Vera, Pablo *see* **Bultheel, Adhemar; et al., 97h:41029**

Grigorieff, Rolf Dieter (*with* Sloan, Ian H.) Spline Petrov-Galerkin methods with quadrature. (English summary) **97k:65181**

Hasegawa, Takemitsu (*with* Sidi, Avram) An automatic integration procedure for infinite range integrals involving oscillatory kernels. (English summary) **97k:65056**

Hendriksen, Erik *see* **Bultheel, Adhemar; et al., 97h:41029**

Kim, KyoungJoong (*with* Song, ManSuk) Symmetric quadrature formulas over a unit disk. (English summary) **97m:65051**

Köhler, Peter Asymptotically sharp error estimates for modified compound quadrature formulae for Cauchy principal value integrals. (English and German summaries) **97e:65048**

— Numerical integration of irregularly oscillating functions by parameter-dependent compound quadrature formulae. (English summary) **97h:65025**

Kolyukhin, D. R. *see* **Voltishek, A. V., 97m:65019**

Kovačević, M. A. (*with* Milovanović, Gradimir V.) Spline approximation and generalized Turán quadratures. (English summary) **97h:41023**

Kuijlaars, A. B. J. Chebyshev-type quadrature and zeros of Faber polynomials. (English summary) **97d:65009**

Li, Feng[3] Monosplines with boundary conditions and an optimal quadrature formula. (Chinese. English and Chinese summaries)

Lotti, Grazia *see* **Favati, Paola; et al.**
Lubinsky, Doron S. (*with* Matjila, D. M.) Full quadrature sums for pth powers of polynomials with Freud weights. (English summary) **97a:41014**
Lyness, J. N. (*with* Sloan, Ian H.) Cubature rules of prescribed merit. (English summary) **97m:65052**
Matjila, D. M. *see* **Lubinsky, Doron S., 97a:41014**
Milovanović, Gradimir V. *see* **Kovačević, M. A., 97h:41023**
Mysovskikh, I. P. On a representation of the reproducing kernel of a ball. (Russian. Russian summary) **97i:41044**
Njåstad, Olav *see* **Bultheel, Adhemar; et al., 97h:41029**
Popov, N. M. Decomposition quadrature formulas. (Russian. Russian summary) **97g:65056**
Prasad, Jagdish *see* **Varma, A. K., 97i:41017**
Putinar, Mihai A note on Tchakaloff's theorem. (English summary) **97j:65045**
Reztsov, A. V. (*with* Wake, Graeme C.) Theory and use of functionals on the class of nonnegative polynomials and quadrature formulae. (English summary) **97m:65053**
Romani, Francesco *see* **Favati, Paola; et al.**
Shabozov, M. Sh. *see* **Vakarchuk, S. B., 97h:41051**
Sidi, Avram *see* **Hasegawa, Takemitsu, 97k:65056**
Sloan, Ian H. *see* **Cools, Ronald, 97a:65025; Grigorieff, Rolf Dieter, 97k:65181** *and* **Lyness, J. N., 97m:65052**
Song, ManSuk *see* **Kim, KyoungJoong, 97m:65051**
Vakarchuk, S. B. (*with* Shabozov, M. Sh.) Quasi-widths and the optimization of methods of mixed approximation of multidimensional singular integrals with Hilbert-type kernels. (Russian. English and Ukrainian summaries) **97h:41051**
Varma, A. K. (*with* Prasad, Jagdish) On certain splines and related quadrature formula. (English summary) **97i:41017**
Vaskevich, V. L. Analogs of Hermite cubature formulas for the Dirichlet integral of harmonic functions [translation of *Theoretical and numerical problems of mathematical physics (Russian)*, 105–143, "Nauka" Sibirsk. Otdel., Novosibirsk, 1994]. (English summary) **97e:65029**
Voltishek, A. V. (*with* Kolyukhin, D. R.) ★ Использование аппроксимации Стренга-Фикса при вычислении многократных интегралов методом Монте-Карло. (Russian. English and Russian summaries) [Use of the Strang-Fix approximation in computing multiple integrals by the Monte Carlo method] **97m:65019**
Wake, Graeme C. *see* **Reztsov, A. V., 97m:65053**
Xu, Yuan[1] ★ Common zeros of polynomials in several variables and higher-dimensional quadrature. **97m:41002**
Yang, Zi Qiang (*with* Zhang, Chun Ming) Dimension reduction and L_1 approximation for evaluation of multivariate normal integrals. (Chinese. English summary)
Yanovich, L. A. *see* **Zhavrid, N. S., 97e:65030**
Zhang, Chun Ming *see* **Yang, Zi Qiang**
Zhavrid, N. S. (*with* Yanovich, L. A.) Quadratic integration of functionals in spaces of continuously differentiable functions in one and two variables. (Russian. English and Russian summaries) **97e:65030**

41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

Ahlbrandt, Calvin D. A Pincherle theorem for matrix continued fractions. (English summary) **97b:41031**
Braaksma, B. L. J. (*with* Stark, Dudley) A Darboux-type theorem for slowly varying functions. (English summary) **97m:41034**
Chui, Charles K. (*with* Li, Chun[3]) Dyadic affine decompositions and functional wavelet transforms. (English summary) **97b:41032**
Hartwig, Robert E. *see* **Mani, Vaidyanath, 97k:41052**
Li, Chun[3] *see* **Chui, Charles K., 97b:41032**
Mani, Vaidyanath (*with* Hartwig, Robert E.) Black box interpolation. II. The one variable derogatory case. (English summary) **97k:41052**
Mu, Le Hua Asymptotic expression near the ellipse of convergence of Jacobi series in complex plane. (English summary) **97b:41033**
Schmid, Ulrich Hans On the approximation of positive functions by power series. (English summary) **97f:41027**
Sellier, A. Asymptotic expansion of a general integral. (English summary) **97k:41053**
— Asymptotic behaviour of a class of singular Fourier integrals. (English summary)
Sibuya, Yasutaka Gevrey asymptotics. (*see* **97i:34003**)
Stark, Dudley *see* **Braaksma, B. L. J., 97m:41034**
Yang, Chang Lan An asymptotic expansion formula for some oscillatory integrals in higher dimensions. (Chinese. English and Chinese summaries)
Zhang, Pei Xuan Conjugate mixed Jacobi series and their corresponding conjugate functions. (Chinese. English and Chinese summaries) **97j:41021**

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Çavuş, Abdullah Approximation by generalized Faber series in Bergman spaces on finite regions with a quasiconformal boundary. (English summary) **97e:41007**
Ciupa, Alexandra On the monotonicity of the sequence formed by the first order derivatives of a Favard-Szasz type operator. (English and Romanian summaries) **97h:41040**
Cortina, Elsa *see* **Gomes, Sônia M., 97a:41019**
Das, Gokulananda (*with* Ojha, A. K.; Ray, Braja Kishore) Degree of approximation of functions associated with Hardy-Littlewood series in the Hölder metric by Euler means. (English summary) **97h:42003**
Donoho, David L. (*with* Johnstone, Iain M.) Neo-classical minimax problems, thresholding and adaptive function estimation. (English summary) **97f:62062**
Gingold, Harry (*with* Knopfmacher, Arnold) Analytic properties of power product expansions. (English summary) **97b:30055**
Gomes, Sônia M. (*with* Cortina, Elsa) Some results on the convergence of sampling series based on convolution integrals. (English summary) **97a:41019**
Handelman, David Eventual positivity for analytic functions. **97d:30002**
Johnstone, Iain M. *see* **Donoho, David L., 97f:62062**
Knopfmacher, Arnold *see* **Gingold, Harry, 97b:30055**
Kudryavtsev, L. D. On an expansion of functions in series whose partial sums are means of the Steklov function. (Russian) **97j:46029**
Ojha, A. K. *see* **Das, Gokulananda; et al., 97h:42003**
Olde Daalhuis, A. B. Hyperterminants. I. (English summary) **97g:34071**
Pritsker, I. E. (*with* Varga, Richard S.) Boundary singularities of Faber and Fourier series. (English summary) **97e:30002**
Ray, Braja Kishore *see* **Das, Gokulananda; et al., 97h:42003**
Riestra, J.-A. ★ A generalized Taylor's formula for functions of several variables and certain of its applications. (English summary) **97e:58016**
Sharapudinov, I. I. On the boundedness in $C[-1, 1]$ of de la Vallée-Poussin means for discrete Fourier-Chebyshev sums. (Russian. Russian summary) **97c:42047**
Stanković, Bogoljub Taylor expansion for generalized functions. (English summary) **97i:46075**
Varga, Richard S. *see* **Pritsker, I. E., 97e:30002**
Walz, Guido ★ Asymptotics and extrapolation. **97j:65001**
Wang, You Guo Approximation by Taylor means under a one-sided condition. (Chinese. English and Chinese summaries) **97k:42012**

41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

Chen, Wen Zhong (*with* Zhou, Mi) On the rates of convergence for probability type operators sequence. (English summary) **97b:41056**
Frankel, N. E. *see* **Kowalenko, Victor; et al., 97c:41035**
Glasser, M. L. *see* **Kowalenko, Victor; et al., 97c:41035**
Kowalenko, Victor (*with* Frankel, N. E.; Glasser, M. L.; Taucher, T.) ★ Generalised Euler-Jacobi inversion formula and asymptotics beyond all orders. (English summary) **97c:41035**
Kryžienė, B. A. The Euler-Maclaurin formula for functions with singularities. (English and Lithuanian summaries) **97m:41035**
Li, Xin[3] On the convergence of double least-squares inverses. (English summary) **97h:41057**
Sellier, A. Asymptotic expansion of a class of multi-dimensional integrals. (English summary) **97h:41058**
— Application of the Hadamard's finite part concept to the asymptotic expansion of a class of multidimensional integrals. (English summary) **97i:41042**
Shu, Shi (*with* Yu, Hai Yuan) Asymptotic expansions for quadratic spline–finite element solutions to an eigenvalue problem. (Chinese. Chinese summary)
Taucher, T. *see* **Kowalenko, Victor; et al., 97c:41035**
Yu, Hai Yuan *see* **Shu, Shi**
Zhou, Mi *see* **Chen, Wen Zhong, 97b:41056**

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Anastassiou, George A. *see* **Zhou, Mi, 97e:47064**
Bosley, D. L. A technique for the numerical verification of asymptotic expansions. (English summary) **97c:34113**
Boyd, William G. C. Steepest-descents integral representations for dominant solutions of linear second-order differential equations. (English summary) **97i:34075**
Costin, Ovidiu (*with* Costin, Rodica) Rigorous WKB for finite-order linear recurrence relations with smooth coefficients. (English summary) **97a:39005**
Costin, Rodica *see* **Costin, Ovidiu, 97a:39005**
DeVore, Ronald A. (*with* Temlyakov, V. N.) Nonlinear approximation by trigonometric sums. (English summary) **97c:42003**
Keller, Joseph B. (*with* Ward, Michael J.) Asymptotics beyond all orders for a low Reynolds number flow. (English summary) **97g:76023**
Khas'minskiĭ, R. Z. (*with* Yin, Gang George) Asymptotic series for singularly perturbed Kolmogorov-Fokker-Planck equations. (English summary) **97j:60141**
Kirschenhofer, Peter A note on alternating sums. (English summary) **97e:05025**
Lang, T. (*with* Wong, Roderick) "Best possible" upper bounds for the first two positive zeros of the Bessel function $J_\nu(x)$: the infinite case. (English summary) **97h:33016**
Motornyĭ, V. P. (*with* Nitiema, P. C.) On the best L_1-approximation by polynomials of functions which are fractional integrals of summable functions. (English summary) **97m:41029**
Nitiema, P. C. *see* **Motornyĭ, V. P., 97m:41029**
Olver, Frank W. J. ★ Asymptotics and special functions. (English summary) **97b:41001**
Pilipović, Stevan (*with* Stanković, Bogoljub) Quasi-asymptotics and S-asymptotics of ultradistributions. (English summary) **97b:46055**
Routledge, Rick (*with* Tsao, Min) Uniform validity of saddlepoint expansion on compact sets. (English and French summaries) **97a:62035**
Senouf, David Asymptotic and numerical approximations of the zeros of Fourier integrals. (English summary) **97e:30067**
Sidi, Avram Computation of infinite integrals involving Bessel functions of arbitrary order by the $\overline{D}$-transformation. (English summary) **97k:65058**
Stanković, Bogoljub *see* **Pilipović, Stevan, 97b:46055**
Starovoĭtov, A. P. (*with* Starovoĭtova, N. A.) Asymptotics of Hadamard determinants and the behavior of rows of Padé and Chebyshev tables for the sum of exponentials. (Russian. Russian summary) **97k:41035**
Starovoĭtova, N. A. *see* **Starovoĭtov, A. P., 97k:41035**
Temlyakov, V. N. *see* **DeVore, Ronald A., 97c:42003**
Tsao, Min *see* **Routledge, Rick, 97a:62035**
Ward, Michael J. *see* **Keller, Joseph B., 97g:76023**
Wong, Roderick *see* **Lang, T., 97h:33016**
Yin, Gang George *see* **Khas'minskiĭ, R. Z., 97j:60141**
Zhou, Mi (*with* Anastassiou, George A.) Asymptotic expansions of the representation formulae for (C_0) m-parameter operator semigroups. (English summary) **97e:47064**

41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)

Akopyan, A. A. *see* **Gevorgyan, O. V.; et al., 97f:41030** *and* **97h:41063**

Alfeld, Peter (*with* Neamtu, Marian; Schumaker, Larry L.) Dimension and local bases of homogeneous spline spaces. (English summary) **97h:41059**

— Upper and lower bounds on the dimension of multivariate spline spaces. (English summary) **97g:41048**

Bagby, Thomas (*with* Bos, L. P.; Levenberg, Norman) Quantitative approximation theorems for elliptic operators. (English summary) **97h:41060**

Beatson, R. K. (*with* Dyn, Nira) Multiquadric B-splines. (English summary) **97f:41028**

Bos, L. P. (*with* Holland, Darius) Network splines. (English summary) **97j:41022**

— *see also* **Bagby, Thomas; et al., 97h:41060**

Chui, Charles K. (*with* Li, Xin[3]; Mhaskar, H. N.) Limitations of the approximation capabilities of neural networks with one hidden layer. (English summary) **97f:41029**

Costantini, Paolo (*with* Manni, Carla) On a class of polynomial triangular macro-elements. (English summary) **97g:41049**

DeVore, Ronald A. (*with* Oskolkov, Konstantin I.; Petrushev, Pencho P.) Approximation by feed-forward neural networks. (English summary) **97f:41043**

Diener, Dwight Geometry dependence of the dimension of spaces of piecewise polynomials on rectilinear partitions. (English summary) **97h:41061**

Dinh Dung Direct and inverse theorems on best multivariate trigonometric polynomial approximations. (English summary) **97e:41071**

Dunham, Charles B. Bounding distance to the best minimax approximation (parameter). (English summary) (*see* **97f:00017**)

Dyn, Nira *see* **Beatson, R. K., 97f:41028**

Fang, Kui (*with* Zhang, Qi Song; Fu, Kai Xin) A C^n interpolation method for arbitrary triangular areas. (Chinese. English and Chinese summaries)

Floater, Michael S. (*with* Iske, Armin) Multistep scattered data interpolation using compactly supported radial basis functions. (English summary) **97h:41062**

Fu, Kai Xin *see* **Fang, Kui; et al.**

Gaier, Dieter On the convergence of the Bieberbach polynomials inside the domain: research problems 97-1.

Garkavi, A. L. On the problem of best approximation of a function $f(x, y)$ by sums $\varphi(ax + by) + \psi(cx + dy)$ (on a question of S. B. Stechkin). (English summary) **97e:41072**

Gevorgyan, O. V. (*with* Akopyan, A. A.; Sahakian, Artur A.) Multivariate Hermite interpolation. (English summary) **97f:41030**

— (*with* Akopyan, A. A.; Sahakian, Artur A.) Numerical curves and their applications to algebraic curves. (English summary) **97h:41063**

Herrmann, Matthias (*with* Mulansky, Bernd; Schmidt, Jochen W.) Scattered data interpolation subject to piecewise quadratic range restrictions. (English summary) **97m:41036**

Holland, Darius *see* **Bos, L. P., 97j:41022**

Iske, Armin *see* **Floater, Michael S., 97h:41062**

Khavinson, S. Ya. Some approximation properties of linear superpositions. (Russian) **97b:41034**

Kuznetsov, E. B. Best parameter of parametric interpolation. (Russian) **97j:41023**

Le Méhauté, Alain (*with* Schumaker, Larry L.; Traversoni Domínguez, Leonardo) Multivariate scattered data fitting.

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Li, Chong[1] Sunset in spaces of bounded linear operators. (English summary) **97j:46014**
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Liu, Yongping Multivariate approximation on the basis of information containing errors. (English summary) **97k:41043**
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Mycielski, Jan (*with* Świerczkowski, Stanisław) Uniform approximation with linear combinations of reproducing kernels. (English summary) **97i:46050**
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Păltineanu, Gavril (*with* Vuza, Dan Tudor) Interpolating ideals in locally convex lattices. (English summary) **97f:46088**
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Rolewicz, Stefan On approximations of functions on metric spaces. (English and Polish summaries) **97f:46063**
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— (*with* Vasilenko, V. A.) Variational approach in abstract splines: achievements and open problems. (English summary) **97e:41021**
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Shi, Junning *see* **Huotari, R.; et al.**, **97j:46023**
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— *see also* **Wang, He Ping**, **97f:46053**
Świerczkowski, Stanisław *see* **Mycielski, Jan**, **97i:46050**
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41A80 Remainders in approximation formulas

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Cuyt, Annie *see* **Abouir, J.; et al., 97e:41032**
González-Vera, Pablo *see* **Abouir, J.; et al., 97e:41032**
Orive Rodríguez, Ramón A. *see* **Abouir, J.; et al., 97e:41032**

41A99 Miscellaneous topics

Items with secondary classifications in 41A99

Plaskota, Leszek Survey of computational complexity with noisy information. (English summary) **97m:65260**
Vlasov, V. A. An algorithm for filtering and extrapolation of time series by splines. (Russian) **97m:65054**

42–XX Fourier analysis

42–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aleksandrov, V. A. ★ Ряды Фурье. (Russian. Russian summary) [Fourier series]
Benedetto, John J. ★ Harmonic analysis and applications. (English summary) **97m:42001**
Dooley, Anthony H. An introduction to some modern aspects of harmonic analysis. (*see* **97a:00041**)
Lasser, Rupert ★ Introduction to Fourier series. (English summary) **97f:42001**
Willem, Michel ★ Analyse harmonique réelle. (French. French summary) [Real harmonic analysis] **97a:42001**

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(Airault, Hélène) *see* **Malliavin, Paul, 97f:28001a**
Albrecht, David (*with* Duong, Xuan Thinh; McIntosh, Alan) Operator theory and harmonic analysis. **97e:47001**
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González-Velasco, Enrique A. ★ Fourier analysis and boundary value problems. (English summary) **97f:00002**
(Kay, Leslie) *see* **Malliavin, Paul, 97f:28001a** *and* **Letac, Gérard, 97f:28001b**
Letac, Gérard ★ Exercises and solutions manual for *Integration and probability* [Springer, New York, 1995] by Paul Malliavin. **97f:28001b**
— *see also* **Malliavin, Paul, 97f:28001a**
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— *see also* **Letac, Gérard, 97f:28001b**
McIntosh, Alan *see* **Albrecht, David; et al., 97e:47001**
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Walker, James Stephan ★ Fast Fourier transforms. **97c:65004**

42–02 Research exposition (monographs, survey articles)

(Kvinikadze, George) *see* **Zhizhiashvili, L. V., 97k:42001**
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42–03 Historical (must also be assigned at least one classification number from Section 01)

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Knapp, Anthony W. Group representations and harmonic analysis from Euler to Langlands. I. **97a:11003**
— Group representations and harmonic analysis. II. **97i:11002**
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42–04 Explicit machine computation and programs (not the theory of computation or programming)

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42–06 Proceedings, conferences, collections, etc.

(Pichorides, Stylianos) *see* **Harmonic analysis from the Pichorides viewpoint, 97f:42002**

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Anogia ★ Harmonic analysis from the Pichorides viewpoint. **97f:42002**
Colloquium:
Harmonic Analysis from the Pichorides Viewpoint ★ Harmonic analysis from the Pichorides viewpoint. **97f:42002**
Harmonic analysis from the Pichorides viewpoint ★ Harmonic analysis from the Pichorides viewpoint. **97f:42002**

Items with secondary classifications in 42–06

(Leindler, László) *see* **Approximation theory and function series, 97h:41002**
(Móricz, Ferenc) *see* **Approximation theory and function series, 97h:41002**
(Révész, Sz. Gy.) *see* **Approximation theory and function series, 97h:41002**
(Szabados, J.) *see* **Approximation theory and function series, 97h:41002**
(Tandori, Károly) *see* **Approximation theory and function series, 97h:41002**
(Totik, Vilmos) *see* **Approximation theory and function series, 97h:41002**
(Vértesi, P.) *see* **Approximation theory and function series, 97h:41002**

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Approximation theory and function series ★ Approximation theory and function series. **97h:41002**
Birthday:
Tandori, Károly ★ Approximation theory and function series. **97h:41002**
Budapest ★ Approximation theory and function series. **97h:41002**
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42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

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Gerver, M. L. Some simple theorems on the location of roots. (Russian) **97i:42001**
Ichim, Ion La suite de Sturm pour un polynôme trigonométrique à coefficients réels. (French summary) [The Sturm sequence for a trigonometric polynomial with real coefficients] **97d:42001**
— Extensions trigonométriques. (French summary) [Trigonometric extensions] **97b:42002**
Janssen, A. J. E. M. More epsilonized bounds of the Boas-Kac-Lukosz type. (English summary) **97i:42002**
Konyagin, Sergei V. On a question of Pichorides. (English and French summaries) **97k:42002**
Koumandos, Stamatis On a positive sine sum. **97k:42003**
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Arguedas, Vernor (*with* Estrada, Ricardo) Extension sets for real analytic functions and applications to Radon transforms. (English summary) **97c:26029**
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Bourgain, Jean Estimates related to sumfree subsets of sets of integers. (English summary) **97m:11026**
Colella, David *see* **Heil, Christopher, 97k:39021**
Ehrich, Sven (*with* Mastroianni, Giuseppe) Stieltjes polynomials and Lagrange interpolation. (English summary) **97j:65013**
Estrada, Ricardo *see* **Arguedas, Vernor, 97c:26029**
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Heil, Christopher (*with* Colella, David) Matrix refinement equations: existence and uniqueness. (English summary) **97k:39021**
Kilgore, Theodore (*with* Felten, Michael) Some inequalities for derivatives of trigonometric and algebraic polynomials. (English summary) **97e:41027**
Mastroianni, Giuseppe *see* **Ehrich, Sven, 97j:65013**
Nguyễn Xuân Kỳ Weighted Nikol′skiĭ-type inequalities for trigonometric polynomials. **97a:41015**
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Storozhenko, È. A. On a problem of Mahler on the zeros of a polynomial and its derivative. (Russian. Russian summary) **97h:30002**
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Temlyakov, V. N. An inequality for trigonometric polynomials and its application for estimating the Kolmogorov widths. (English summary) **97g:42005**

42A10 Trigonometric approximation

Abilov, V. A. Approximation of differentiable functions of two variables by Fourier-Hermite sums. (Russian)
Ahmad, Z. U. (*with* Zaidi, S. M. H.) On the degree of approximation by σ-mean, of functions belonging to Lip $j(t)$ and Z-classes. (English summary) **97f:42004**
Bacchelli, B. (*with* Di Natale, M.) Norm approximation of periodic functions from noisy Fourier coefficients. (English summary) **97i:42003**
Baskakov, V. A. On the degree of approximation of smooth functions by linear saturated operators. (English summary) **97e:42001**
— Approximation in the classes $C(\varepsilon)$. **97f:42005**
Belinskiĭ, E. S. Strong summability of Fourier series of the periodic functions from H^p $(0 < p \le 1)$. (English summary) **97m:42002**
Bushev, D. N. (*with* Koval′chuk, I. R.) On approximation of convolution classes. (English summary) **97m:42003**
Das, Gokulananda (*with* Ghosh, Tulika; Ray, Braja Kishore) Degree of approximation of functions by their Fourier series in the generalized Hölder metric. (English summary) **97h:42001**
DeVore, Ronald A. (*with* Temlyakov, V. N.) Nonlinear approximation by trigonometric sums. (English summary) **97c:42003**
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Ding, Chun Mei Pointwise approximation by Euler means of Fourier series for functions of bounded variation. (Chinese. English and Chinese summaries)
Dinh Dung Best one-sided approximation of smooth multivariate functions. **97f:42006**
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Firlej, B. (*with* Rempulska, Lucyna) Approximation theorems for the Gauss-Weierstrass singular integral. (English and Italian summaries) **97k:42004**
Gelb, Anne The resolution of the Gibbs phenomenon for spherical harmonics. (English summary) **97k:42005**
Ghosh, Tulika *see* **Das, Gokulananda; et al., 97h:42001**
Gottlieb, David (*with* Shu, Chi-Wang) On the Gibbs phenomenon. IV. Recovering exponential accuracy in a subinterval from a Gegenbauer partial sum of a piecewise analytic function. (English summary) **97b:42004**
— (*with* Shu, Chi-Wang) On the Gibbs phenomenon. V. Recovering exponential accuracy from collocation point values of a piecewise analytic function. (English summary)

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Pichugov, S. A. Approximation of contractions of periodic functions in the space L_p, $p < 1$. (Russian. English and Ukrainian summaries) **97d:42003**
Plonka, Gerlind Approximation properties of multi-scaling functions: a Fourier approach. (English summary) **97d:42004**
Prestin, Jürgen (*with* Selig, Kathi) On the Gram matrix of translates of de la Vallée Poussin kernels. (English summary) **97c:42004**
Qureshi, K. (*with* Nema, H. K.) Error bounds in the approximation of functions. (English summary)
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Shabozov, M. Sh. An asymptotic estimate for the remainder in the approximation of differentiable periodic functions of two variables by generalized Fourier sums. (Russian. English summary) **97j:42001**
Sheng, Shu Yun On the approximation of Tchebycheff-Fourier series in the C space and L_p^w space. (English summary) **97f:42008**
Shrivastava, U. K. (*with* Varma, Sushama K.; Yadav, Ramadhar Singh) On the degree of approximation of functions belonging to the Lipschitz class by $F(a, q)$ means. (English summary) **97f:42009**
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— Inverse theorems for the approximation of periodic functions. (Russian. English and Ukrainian summaries) **97c:42005**
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Sunouchi, Gen-ichiro On the saturation class of strong approximation by partial sums of Fourier series. (English summary) **97c:42007**
Taĭkov, L. V. On the best approximation of Dirichlet kernels. (Russian. Russian summary) **97c:42008**
Temlyakov, V. N. *see* **DeVore, Ronald A., 97c:42003**
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Varma, Sushama K. *see* **Shrivastava, U. K.; et al., 97f:42009**
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Zaidi, S. M. H. *see* **Ahmad, Z. U., 97f:42004**

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Rate of convergence of Fourier series on convolution classes ★ Скорость сходимости рядов Фурье на классах сверток. (Russian) [Rate of convergence of Fourier series on convolution classes]

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Abilov, V. A. Approximation of differentiable functions of two variables by Fourier-Laguerre sums. (Russian)
Akeroyd, John An extension of Szegö's theorem. II. (English summary) **97h:30055**
Babenko, Vladislav F. (*with* Polyakov, O. V.) Mean approximations of some classes of continuous periodic functions. (Russian) **97d:41007**
— *see also* **Korneĭchuk, N. P.; et al.**
Blatt, Hans-Peter The distribution of sign changes of the error function in best L^p-approximation. (English summary) **97h:41009**
Cao, Jia-Ding Stečkin inequalities for summability methods. (English summary)
Cooke, Kenneth L. (*with* Ladeira, Luiz A. C.) Applying Carvalho's method to find periodic solutions of difference equations. (English summary) **97c:39002**
Dũng Vũ Giang (*with* Móricz, Ferenc) On the L^1-convergence of Fourier transforms. (English summary) **97e:42004**
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Davydov, O. V. Sequences of rectangular Fourier sums of continuous functions with given majorants of mixed moduli of smoothness. (Russian. Russian summary) **97f:42023**
Dinh Dung Direct and inverse theorems on best multivariate trigonometric polynomial approximations. (English summary) **97e:41071**
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Elschner, Johannes (*with* Stephan, Ernst P.) A discrete collocation method for Symm's integral equation on curves with corners. (English summary) **97k:65290**
Faßbender, Heike A note on Newbery's algorithm for discrete least-squares approximation by trigonometric polynomials. (English summary) **97k:65034**
— On numerical methods for discrete least-squares approximation by trigonometric polynomials. (English summary) **97g:65035**
Galeev, É. M. Linear widths of Hölder-Nikol'skiĭ classes of periodic functions of several variables. (Russian. Russian summary) **97d:41030**
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Malorov, V. E. Widths and distributions of values of the approximation functional on the Sobolev spaces with measure. (English summary) **97h:41047**
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Mitrea, Alexandru I. The unbounded divergence of projections into the space of trigonometric polynomials. (English summary)
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Mycielski, Jan (*with* Świerczkowski, Stanisław) Uniform approximation with linear combinations of reproducing kernels. (English summary) **97i:46050**
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Pichugov, S. A. Approximation in measure of measurable periodic functions by piecewise-constant functions. (Russian. English and Ukrainian summaries) **97e:41053**
Polyakov, O. V. *see* **Babenko, Vladislav F., 97d:41007**
Ray, Braja Kishore *see* **Das, Gokulananda; et al., 97d:42008**
Rohs, Alfred P. *see* **Görlich, Ernst, 97h:41011**
Romanyuk, A. S. Approximation of classes of functions of several variables by their orthogonal projections on subspaces of trigonometric polynomials. (Russian. English and Ukrainian summaries) **97j:41024**
Stephan, Ernst P. *see* **Elschner, Johannes, 97k:65290**
Świerczkowski, Stanisław *see* **Mycielski, Jan, 97i:46050**
Talalyan, N. A. Approximation of random integral means of integrable functions by integral means of partial sums of their Fourier series. (Russian. English and Russian summaries) **97b:42021**
Tasche, Manfred (*with* Weyrich, Norman) Smoothing inversion of Fourier series using generalized cross-validation. (English summary) **97b:65022**
Temlyakov, V. N. An inequality for trigonometric polynomials and its application for estimating the Kolmogorov widths. (English summary) **97g:42005**
Walz, Guido Identities for trigonometric B-splines with an application to curve design. (English summary) **97i:41018**
Wang, You Guo Approximation by Taylor means under a one-sided condition. (Chinese. English and Chinese summaries) **97k:42012**
Weyrich, Norman *see* **Tasche, Manfred, 97b:65022**

42A15 Trigonometric interpolation

Albeanu, Grigore *see* **Ichim, Ion**
He, Jia Xing (*with* Zhang, Yulei) On a linear summation problem in trigonometric interpolation. (English and Chinese summaries) **97c:42009**
— In reply to the question of S. N. Bernstein by trigonometric interpolation polynomials. (English summary) **97c:42010**
Ichim, Ion (*with* Albeanu, Grigore) Sur la formule d'Hermite. [On the Hermite formula]
Jiang, Tianzi On a new kind of Birkhoff type trigonometric interpolation. (English summary) **97i:42005**
— (*with* Ma, Songde) On a new kind of 2-periodic trigonometric interpolation. (English summary) **97k:42007**
Ma, Songde *see* **Jiang, Tianzi, 97k:42007**
Zhang, Yulei *see* **He, Jia Xing, 97c:42009**

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Blatt, Hans-Peter The distribution of sign changes of the error function in best L^p-approximation. (English summary) **97h:41009**
Cavaretta, A. S. (*with* Selvaraj, C. R.; Sharma, Ambikeshwar) Lacunary interpolation by cosine polynomials. (English summary) **97h:41003**
Imhof, L. On the divergence of trigonometric lacunary interpolation. **97k:42006**
Mastroianni, Giuseppe Boundedness of Lagrange operator in some functional spaces. A survey. (English summary) **97j:41001**
Selvaraj, C. R. *see* **Cavaretta, A. S.; et al., 97h:41003**
Sharma, Ambikeshwar *see* **Cavaretta, A. S.; et al., 97h:41003**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

Ahmad, Naseem (*with* Khalid Idrees, M.) A note on the arithmetic means of Fourier

coefficients. (English summary)
Ash, J. Marshall (*with* Wang, Gang[2]; Weinberg, David A.) A Cantor-Lebesgue theorem with variable "coefficients". (English summary) **97c:42011**
Bhatia, Satvinder Singh (*with* Ram, Babu) The extensions of the Ferenc Móricz theorems. (English summary) **97b:42010**
Das, Gokulananda (*with* Ojha, A. K.; Ray, Braja Kishore) Degree of approximation of functions associated with Hardy-Littlewood series in the Hölder metric by Euler means. (English summary) **97h:42003**
Grossman, Nathaniel Convergent expansions for two common trigonometric sums. (English summary) **97k:42008**
Jaffard, Stéphane (*with* Meyer, Yves) Wavelet methods for pointwise regularity and local oscillations of functions. (English summary) **97d:42005**
Khalid Idrees, M. *see* **Ahmad, Naseem**
Lee, Peng Yee *see* **Ye, Guoju, 97f:42011**
(Lorentz, George G.) *see* **Younis, M. S.**
Meyer, Yves *see* **Jaffard, Stéphane, 97d:42005**
Ojha, A. K. *see* **Das, Gokulananda; et al., 97h:42003**
Ram, Babu *see* **Bhatia, Satvinder Singh, 97b:42010**
Ray, Braja Kishore *see* **Das, Gokulananda; et al., 97h:42003**
Telyakovskiĭ, S. A. Estimation of the moduli of continuity of one-variable functions in the metric of L in terms of Fourier coefficients. (English summary) **97h:42004**
Ul′yanov, P. L. On moduli of continuity and Fourier coefficients. (Russian. Russian summary) **97b:42011**
Wang, Gang[2] *see* **Ash, J. Marshall; et al., 97c:42011**
Weinberg, David A. *see* **Ash, J. Marshall; et al., 97c:42011**
Ye, Guoju (*with* Lee, Peng Yee) The coefficients of SCP-Fourier series. (English and Chinese summaries) **97f:42011**
Younis, M. S. On a paper of G. Lorentz: "Coefficients and function classes" [Math. Z. **51** (1948), 135–149; MR **10**, 33e]. (English summary)

Items with secondary classifications in 42A16

Batchelor, Murray T. *see* **Park, S. U.; et al., 97g:81017**
Belov, A. S. On trigonometric series with nonnegative partial sums that are not Fourier-Lebesgue series. (Russian. Russian summary) **97c:42013**
Bochkarev, S. V. de la Vallée-Poussin series in the spaces BMO, L_1 and $H^1(D)$, and multiplicative inequalities. (Russian) **97c:42001**
Bray, William O. Summability of trigonometric series and Calderon reproducing formulas. (English summary) **97k:42011**
Dyakonov, Konstantin M. Generalized Hardy inequalities and pseudocontinuable functions. (English summary) **97j:30015**
Gottlieb, David (*with* Shu, Chi-Wang) On the Gibbs phenomenon. V. Recovering exponential accuracy from collocation point values of a piecewise analytic function. (English summary) **97b:42005**
— (*with* Shu, Chi-Wang) On the Gibbs phenomenon. III. Recovering exponential accuracy in a sub-interval from a spectral partial sum of a piecewise analytic function. (English summary) **97b:42003**
Khazaradze, M. On a problem of Littlewood. (English summary) **97b:42014**
Kholshchevnikova, N. N. On the de la Vallée-Poussin theorem on the uniqueness of the representation of a function by a trigonometric series. (Russian. Russian summary) **97f:42020**
Laković, Bosa *see* **Potapov, M. K.; et al., 97f:42025**
Mukhopadhyay, S. N. (*with* Mukhopadhyay, Swapan Kumar) A generalized integral with applications to trigonometric series. (Russian summary) **97m:26010**
Mukhopadhyay, Swapan Kumar *see* **Mukhopadhyay, S. N., 97m:26010**
Oh, I. K. *see* **Park, S. U.; et al., 97g:81017**
Papp, Kitti F. Lebesgue integrability theorems for double trigonometric series. (English summary) **97m:42018**
Park, S. U. (*with* Batchelor, Murray T.; Oh, I. K.) Half-operatorisation of a function and physical applications. (English summary) **97g:81017**
Potapov, M. K. (*with* Simonov, B. V.; Laković, Bosa) On estimates for the mixed modulus of continuity of a function with a transformed Fourier series. (Russian. English and Russian summaries) **97f:42025**
Reyes, Noli N. On the pointwise behavior of some lacunary wavelet series. (English summary) **97j:42018**
Ricci, Paolo Emilio *see* **Rinaldi, Lucia, 97g:42024**
Rinaldi, Lucia (*with* Ricci, Paolo Emilio) Complex symmetric functions and generalized discrete Fourier transform. (English summary) **97g:42024**
Shu, Chi-Wang *see* **Gottlieb, David, 97b:42003** *and* **97b:42005**
Simonov, B. V. *see* **Potapov, M. K.; et al., 97f:42025**

42A20 Convergence of Fourier and trigonometric series

Antonov, N. Yu. Convergence of Fourier series. (English summary) **97h:42005**
Ash, J. Marshall (*with* Wang, Gang[2]) One- and two-dimensional Cantor-Lebesgue type theorems. (English summary) **97h:42006**
Ch'ên, Chang P'ao (*with* Chen, Gwo-Bin) Uniform convergence of double trigonometric series. (English summary) **97d:42006**
Chen, Gwo-Bin *see* **Ch'ên, Chang P'ao, 97d:42006**
Ha, Young-Hwa (*with* Lee, Jin) Uniqueness of square convergent trigonometric series. **97b:42012**
Karagulyan, G. A. On the growth order $o(\log\log n)$ of partial sums of Fourier-Stieltjes series of random measures. (Russian) **97d:42007**
Lee, Jin *see* **Ha, Young-Hwa, 97b:42012**
Móricz, Ferenc (*with* Siddiqi, A. H.) A quantified version of the Dirichlet-Jordan test in L^1-norm. (English summary) **97k:42009**
Olevskiĭ, A. M. Kolmogorov's theorems in Fourier analysis. **97f:42012**
Pinsky, Mark A. Pointwise Fourier inversion and related Jacobi polynomial expansions. **97k:42010**
Repický, Miroslav Towers and permitted trigonometric thin sets. (English summary) **97f:42013**
Sheng, Shu Yun (*with* Wang, Zai Yang) Necessary and sufficient conditions for L^1 convergence of some classes of complex trigonometric sums. (Chinese. English and Chinese summaries)
Siddiqi, A. H. *see* **Móricz, Ferenc, 97k:42009**
Stanojević, Vera B. Tauberian conditions and structures of Taylor and Fourier coefficients. (English summary) **97g:42001**
Wang, Gang[2] *see* **Ash, J. Marshall, 97h:42006**
Wang, Zai Yang *see* **Sheng, Shu Yun**

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Bhatia, Satvinder Singh (*with* Ram, Babu) The extensions of the Ferenc Móricz theorems. (English summary) **97b:42010**
— *see also* **Ram, Babu, 97b:42020**
Kholshchevnikova, N. N. On the de la Vallée-Poussin theorem on the uniqueness of the representation of a function by a trigonometric series. (Russian. Russian summary) **97f:42020**
Ki, Haseo On the set of all continuous functions with uniformly convergent Fourier series. (English summary) **97a:04001**
— On the Denjoy rank, the Kechris-Woodin rank and the Zalcwasser rank. (English summary) **97i:04001**
Mikolás, Miklós Recent contributions to the theory of non-absolutely convergent Fourier transforms. (English summary) **97j:42002**
Ram, Babu (*with* Bhatia, Satvinder Singh) Integrability and L^1-convergence of complex double trigonometric series with special coefficients. (English summary) **97b:42020**
— *see also* **Bhatia, Satvinder Singh, 97b:42010**
Sharapudinov, I. I. On the uniform boundedness in L^p ($p = p(x)$) of some families of convolution operators. (Russian. Russian summary) **97c:47035**
Telyakovskiĭ, S. A. On the behavior near the origin of sine series with convex coefficients. (English summary) **97f:42016**
Ul′yanov, P. L. On moduli of continuity and Fourier coefficients. (Russian. Russian summary) **97b:42011**

42A24 Summability of Fourier and trigonometric series

Baber, C. S. (*with* Pandey, G. S.) Summability factors of Fourier series. (English summary)
Bhagwat, Purnima On the $(H,1)(E,q)(C,1)$-summability of the derived Fourier series. (English summary)
— On the $(H,1)(B,1)(C,1)$-summability of the derived Fourier series. (English summary)
Bhatt, S. K. A criterion for Taylor summability of Fourier series. (Hindi. English and Hindi summaries)
— A simple criterion for Taylor summability of Fourier series. (Hindi. English and Hindi summaries)
— (*with* Kathal, P. D.) Taylor summability of conjugate Fourier series. (Hindi. English and Hindi summaries)
— Summability of S_β Fourier series. (Hindi. English and Hindi summaries)
Bray, William O. Summability of trigonometric series and Calderon reproducing formulas. (English summary) **97k:42011**
Brul, I. N. Trigonometric series of the classes $L^p(T)$ and their regular means. (Russian. English and Russian summaries) **97e:42002**
— Trigonometric series of class $L^\infty(\mathbf{T})$ and their conservative means. (Russian. English and Russian summaries) **97m:42004**
Chaturvedi, Mahendra Dutt On a theorem of Bosanquet and Hyslop. (English summary)
Ch'ên, Chang P'ao (*with* Yeh, Ching Tung) Tauberian conditions for Cesàro summability of trigonometric series. (English summary) **97b:42013**
Choudhary, Damyanti *see* **Pathak, Hemant Kumar**
Das, Gokulananda (*with* Ghosh, Tulika; Ray, Braja Kishore) Degree of approximation of functions in the Hölder metric by (e,c) means. (English summary) **97d:42008**
Estrada, Ricardo Summability of cardinal series and of localized Fourier series. (English summary) **97c:42012**
Ghosh, Tulika *see* **Das, Gokulananda; et al., 97d:42008**
Kalpana Saxena, Smt. (*with* Kathal, P. D.) On the Euler summability of the derived Fourier series. (English summary)
Kathal, P. D. *see* **Shukla, Manoj; Kalpana Saxena, Smt.** *and* **Bhatt, S. K.**
Liu, Jia Cheng *see* **Mei, Xue Feng**
Mei, Xue Feng (*with* Liu, Jia Cheng) Approximation of functions by (N,σ)-means of their Chebyshev-Fourier series. (Chinese. English and Chinese summaries)
Móricz, Ferenc The maximal Fejér operator is bounded from $H^1(\mathbf{T})$ into $L^1(\mathbf{T})$. (English summary) **97f:42014**
Pandey, G. S. *see* **Baber, C. S.**
Pathak, Hemant Kumar On the generalized Norlund summability of conjugate Fourier series. (English summary)
— (*with* Choudhary, Damyanti) On matrix summability of Fourier series and its conjugate series. (English summary)
— (*with* Choudhary, Damyanti) On $(N,1/(n+1))$ summability of the conjugate derived Fourier series. (English summary)
Ray, Braja Kishore *see* **Das, Gokulananda; et al., 97d:42008**
Sachan, M. P. *see* **Tripath, M. M. P.; Singh, B. P.** *and* **Sachan, Neeraja**
Sachan, Neeraja (*with* Sachan, M. P.) On the strong summability of Fourier series. (Hindi. English and Hindi summaries)
— (*with* Shukla, Y. B.) The $(C,1)$ transform and $(H,1)(C,1)$ summability of a conjugate derived Fourier series. (Hindi. English and Hindi summaries)
Sharma, Manisha Approximation to a function by Norlund means of its Fourier Jacobi series. (Hindi. English and Hindi summaries)
Shukla, Manoj (*with* Kathal, P. D.) On the Euler summability of the derived Fourier series and the conjugate series of the derived Fourier series. (English summary)
Shukla, Y. B. *see* **Sachan, Neeraja**
Singh, B. P. (*with* Sachan, M. P.) The $(B)(C,1)$ summability of conjugate derived Fourier sequence. (Hindi. English and Hindi summaries)
Singh, Kalp Nath On the behaviour of Fourier coefficients. (English summary)

Tang, Ping Linear summation methods for Fourier-Laplace series. (Chinese. English and Chinese summaries)
Tripath, M. M. P. (*with* Sachan, M. P.) Borel summability of Fourier series. (Hindi. English and Hindi summaries)
Wang, You Guo Approximation by Taylor means under a one-sided condition. (Chinese. English and Chinese summaries) **97k:42012**
Yeh, Ching Tung *see* **Ch'ên, Chang P'ao**, **97b:42013**

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Ding, Chun Mei Pointwise approximation by Euler means of Fourier series for functions of bounded variation. (Chinese. English and Chinese summaries)
Kholshchevnikova, N. N. On the de la Vallée-Poussin theorem on the uniqueness of the representation of a function by a trigonometric series. (Russian. Russian summary) **97f:42020**
Nema, H. K. *see* **Qureshi, K.**
Pandey, Sheel Sindhu Approximation to a function by F_A-means of its Fourier series. **97b:42006**
Qureshi, K. (*with* Nema, H. K.) Error bounds in the approximation of functions. (English summary)
— (*with* Nema, H. K.) On the degree of approximation of a class of functions by means of a Fourier series. (English summary)
Settu, S. A. Mean approximation of periodic functions by generalized Karamata means. (English summary) **97b:42009**
Shrivastava, U. K. (*with* Varma, Sushama K.; Yadav, Ramadhar Singh) On the degree of approximation of functions belonging to the Lipschitz class by $F(a, q)$ means. (English summary) **97f:42009**
Talalyan, N. A. Approximation of random integral means of integrable functions by integral means of partial sums of their Fourier series. (Russian. English and Russian summaries) **97b:42021**
Varma, Sushama K. *see* **Shrivastava, U. K.; et al.**, **97f:42009**
Yadav, Ramadhar Singh *see* **Shrivastava, U. K.; et al.**, **97f:42009**

42A28 Absolute convergence, absolute summability

Chandra, Prem (*with* Kshirsagar, Varsha) Absolute zero order summability of series related to a Fourier series and its conjugate series. (English summary) **97k:42013**
Kshirsagar, Varsha *see* **Chandra, Prem**, **97k:42013**
Leindler, László On equivalence of coefficient conditions with applications. (English summary) **97k:42014**
Misra, U. K. Absolute matrix summability of a factored Fourier series.
Ray, Braja Kishore (*with* Sahoo, A. K.) Application of the absolute Euler method to some series related to Fourier series and its conjugate series. (English summary) **97d:42009**
Sahoo, A. K. *see* **Ray, Braja Kishore**, **97d:42009**

42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

Belov, A. S. On trigonometric series with nonnegative partial sums that are not Fourier-Lebesgue series. (Russian. Russian summary) **97c:42013**
D'yachenko, M. I. *see* **Vukolova, T. M.**, **97b:42015**
Inoue, Akihiko On Abel-Tauber theorems for Fourier cosine transforms. (English summary) **97f:42015a**
— An Abel-Tauber theorem for Fourier sine transforms. (English summary) **97f:42015b**
Khazaradze, M. On a problem of Littlewood. (English summary) **97b:42014**
Telyakovskiĭ, S. A. On the behavior near the origin of sine series with convex coefficients. (English summary) **97f:42016**
Vietoris, Leopold Über das Vorzeichen gewisser trigonometrischer Summen. III. [On the sign of certain trigonometric sums. III] **97c:42003**
Vukolova, T. M. (*with* D'yachenko, M. I.) On the properties of sums of trigonometric series with monotone coefficients. (Russian. Russian summary) **97b:42015**

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Berezhnoĭ, E. I. A sharp correctability theorem for spaces of functions of generalized bounded variation. (Russian. Russian summary) **97c:46035**
Bhatia, Satvinder Singh *see* **Ram, Babu**, **97b:42020**
Blatov, I. A. On operator algebras with pseudo-sparse matrices, and their applications. (Russian. Russian summary) **97f:47043**
Bochkarev, S. V. de la Vallée-Poussin series in the spaces BMO, L_1 and $H^1(D)$, and multiplicative inequalities. (Russian) **97c:42001**
Grosjean, Carl C. Solving some problems of advanced analytical nature posed in the SIAM-Review. II. (English summary) **97k:05018a**
Janssen, A. J. E. M. More epsilonized bounds of the Boas-Kac-Lukosz type. (English summary) **97f:42002**
Ram, Babu (*with* Bhatia, Satvinder Singh) Integrability and L^1-convergence of complex double trigonometric series with special coefficients. (English summary) **97b:42020**
Révész, Sz. Gy. The least possible value at zero of some nonnegative cosine polynomials and equivalent dual problems. (English and French summaries) **97c:42002**
Tetunashvili, Sh. T. On null series in a trigonometric system and in Walsh and Haar systems. (Russian. Russian summary) **97f:42046**
Tevzadze, T. Sh. Estimation of the integral modulus of smoothness of an even function of several variables with quasiconvex Fourier coefficients. (English summary) **97g:42006**

42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Dăng Vũ Giang (*with* Móricz, Ferenc) On the L^1 theory of Fourier transforms and multipliers. (English summary) **97f:42006**
— (*with* Móricz, Ferenc) On the L^1-convergence of Fourier transforms. (English summary) **97e:42004**
Ganzburg, M. I. (*with* Liflyand, E. R.) Estimates of best approximation and Fourier transforms in integral metrics. (English summary) **97k:42015**
Gevorkyan, G. G. On trigonometric integrals summable by the Riemann method. (Russian. English and Russian summaries) **97c:42014**
Glickenstein, David (*with* Strichartz, Robert S.) Nonlinear self-similar measures and their Fourier transforms. (English summary) **97k:42016**
Holschneider, Matthias Large-scale renormalisation of Fourier transforms of self-similar measures and self-similarity of Riesz measures. (English summary) **97e:42015**
Karabegov, A. V. On the norm of the Fourier transform from a finite interval to a finite interval. (Russian. English and Russian summaries) **97d:42010**
Kaufman, Robert Thin sets, differentiable functions, and the category method. (English and French summaries) **97f:42017**
Lang, Enrico Power series, uncertainty inequalities and real zeros of Fourier transforms. **97m:42005**
Liflyand, E. R. *see* **Ganzburg, M. I.**, **97k:42015**
Miao, Bang Jun *see* **Zhang, Chun Yue**
Mikolás, Miklós Recent contributions to the theory of non-absolutely convergent Fourier transforms. (English summary) **97j:42002**
Móricz, Ferenc *see* **Dăng Vũ Giang**, **97e:42004** *and* **97f:42006**
Muraz, Gilbert (*with* Szeptycki, Pawel) Invariant subspaces of the maximal domain of the Fourier transform. (English summary) **97m:42006**
Schaback, Robert (*with* Wu, Zong Min) Operators on radial functions. (English summary) **97g:42002**
Sedletskiĭ, A. M. Theorems of Paley-Wiener-Pitt's type for Fourier transforms of rapidly decreasing functions. (English summary) **97f:42007**
Strichartz, Robert S. *see* **Glickenstein, David**, **97k:42016**
Szeptycki, Pawel *see* **Muraz, Gilbert**, **97m:42006**
Wu, Zong Min *see* **Schaback, Robert**, **97g:42002**
Zhang, Chun Yue (*with* Miao, Bang Jun) A new proof of the inversion formula for the Fourier transform. (Chinese. English and Chinese summaries)

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Angers, Jean-François Fourier transform and Bayes estimator of a location parameter. (English summary) **97k:62054**
Buschman, R. G. ★ Integral transformations, operational calculus, and generalized functions. (English summary) **97j:44001**
Engelbert, Hans-Jürgen *see* **Schladitz, K.**, **97d:60024**
Fang, Gen Sun Whittaker-Kotelnikov-Shannon sampling theorem and aliasing error. (English summary) **97b:41002**
Fichtmüller, M. (*with* Weich, W.) The limit transition $q \to 1$ of the q-Fourier transform. (English summary) **97j:33039**
Ghusayni, Badih On approximation by a nonfundamental sequence of translates. (English summary) **97f:42021**
Goldberg, Helmuth *see* **Kozlov, Vladimir Arkad'evich; et al.**, **97f:35211**
Janssen, A. J. E. M. More epsilonized bounds of the Boas-Kac-Lukosz type. (English summary) **97f:42002**
Johansson, B. I. A Tauberian vanishing theorem. (Russian summary) **97c:40006**
Kahane, Jean-Pierre Une formule de Fourier sur les nombres premiers. [A Fourier formula for prime numbers] **97b:11113**
Khapalyuk, A. P. The generalized Fourier transformation. (Russian. English and Russian summaries) **97d:46044**
Kierat, Władysław (*with* Skórnik, Urszula) On some relations between the Cauchy and Fourier transforms of distributions. (English summary) **97m:46066**
Kozlov, Vladimir Arkad'evich (*with* Wendland, Wolfgang L.; Goldberg, Helmuth) The behaviour of elastic fields and boundary integral Mellin techniques near conical points. (English summary) **97f:35211**
Mikusiński, Piotr (*with* Mott, Michael L.) The integral wavelet transform of convolutors. (English summary) **97k:46044**
Mott, Michael L. *see* **Mikusiński, Piotr**, **97k:46044**
Schladitz, K. (*with* Engelbert, Hans-Jürgen) On probability density functions which are their own characteristic functions. (Russian summary) **97d:60024**
Sedletskiĭ, A. M. Complex variants of Abelian theorem for Laplace transform. (English summary) **97m:44003**
Skórnik, Urszula *see* **Kierat, Władysław**, **97m:46066**
Weich, W. *see* **Fichtmüller, M.**, **97j:33039**
Wendland, Wolfgang L. *see* **Kozlov, Vladimir Arkad'evich; et al.**, **97f:35211**
Zhu, Tongjiang The similarity transformation of regularizing functionals and similarity property of their Fourier transformations. (English and Chinese summaries) **97e:46055**

42A45 Multipliers

Ansorena, José Luis (*with* Blasco, Oscar) Atomic decomposition of weighted Besov spaces. (English summary) **97b:42016**
Berkson, Earl (*with* Paluszyński, Maciej; Weiss, Guido) Wavelet decompositions of Fourier multipliers. (English summary) **97j:42003**
Blasco, Oscar *see* **Ansorena, José Luis**, **97b:42016**
Cruz-Uribe, David Piecewise monotonic doubling measures. **97k:42017**
Kanjin, Yuichi (*with* Sato, Enji) Operating functions on multipliers for Jacobi and Laguerre expansions. **97c:42016**
Olevskiĭ, Victor A connection between Fourier and Schur multipliers. (English summary) **97f:42018**
Paluszyński, Maciej *see* **Berkson, Earl; et al.**, **97j:42003**
Sato, Enji *see* **Kanjin, Yuichi**, **97c:42016**
Stokolos, A. M. On a problem of M. de Guzmán on Fourier multipliers of polygonal domains. (Russian. Russian summary) **97b:42017**
Weiss, Guido *see* **Berkson, Earl; et al.**, **97j:42003**

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Bonami, Aline Mouvements par courbure moyenne perturbés et multiplicateurs de Fourier. (English and French summaries) [Perturbed mean curvature motion and Fourier

multipliers] **97h:35237**
Dăng Vũ Giang (*with* Móricz, Ferenc) On the L^1 theory of Fourier transforms and multipliers. (English summary) **97i:42006**
Duoandikoetxea, Javier (*with* Vargas, Ana M.) Directional operators and radial functions on the plane. (English summary) **97c:42031**
Hieber, Matthias Examples of pseudo-differential operators in L^p spaces with unbounded imaginary powers. **97a:47082**
Lebedev, V. V. (*with* Olevskiĭ, A. M.) Bounded groups of translation invariant operators. (English and French summaries) **97b:42026**
Móricz, Ferenc *see* **Dăng Vũ Giang**, **97i:42006**
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Rooney, P. G. On the ranges of Mellin multiplier transformations. (English summary) **97i:44002**
Vargas, Ana M. *see* **Duoandikoetxea, Javier**, **97c:42031**

42A50 Conjugate functions, conjugate series, singular integrals

Treil, S. R. (*with* Vol'berg, A. L.) Weighted embeddings and weighted norm inequalities for the Hilbert transform and the maximal operator. (English summary) **97c:42017**
Vol'berg, A. L. *see* **Treil, S. R.**, **97c:42017**

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Jones, Roger L. *see* **Ferrando, S. E.; et al.**, **97k:42027**
Katsevich, Alexander I. (*with* Ramm, Alexander G.) Pseudolocal tomography. (English summary) **97b:44004**
Khan, Huzoor H. (*with* Ram, Govind) On the degree of approximation by weighted $(L^p, \psi(t))$ class. (English summary) **97f:42007**
Móricz, Ferenc On the maximal Fejér operator for double Fourier series of functions in Hardy spaces. (English summary) **97a:47044**
— The maximal Fejér operator is bounded from $H^1(\mathbf{T})$ into $L^1(\mathbf{T})$. (English summary) **97f:42014**
Okulov, V. A. On moduli of continuity of a conjugate function of several variables. (Russian. Russian summary) **97a:42006**
Ram, Govind *see* **Khan, Huzoor H.**, **97f:42007**
Ramm, Alexander G. *see* **Katsevich, Alexander I.**, **97b:44004**
Ray, Braja Kishore (*with* Sahoo, A. K.) Application of the absolute Euler method to some series related to Fourier series and its conjugate series. (English summary) **97d:42009**
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— Size estimates for eigenvalues of singular integral operators and Schrödinger operators and for derivatives of quasiconformal mappings. (English summary) **97a:47077a**
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Yamada, Masahiro Interpolating sequences and embedding theorems in weighted Bergman spaces. (English summary) **97m:46037**
Zhang, Pei Xuan Conjugate mixed Jacobi series and their corresponding conjugate functions. (Chinese. English and Chinese summaries) **97j:41021**
— The conjugate series of a class of biorthogonal series. (Chinese. English and Chinese summaries)

42A55 Lacunary series of trigonometric and other functions; Riesz products

Berkes, István On the convergence of $\sum c_n f(nx)$ and the Lip 1/2 class. (English summary) **97m:42007**
Harrison, Kenneth J. (*with* Ramsey, L. Thomas) On partitioning Sidon sets with quasi-independent sets. **97b:42018**
Lukomskiĭ, S. F. On the coefficients of lacunary trigonometric series and Rademacher series that converge to sets of measure zero. (Russian) **97m:42008**
Ramsey, L. Thomas *see* **Harrison, Kenneth J.**, **97b:42018**
Sagher, Yoram (*with* Zhou, Kecheng) Exponential integrability of Rademacher series. (English summary) **97k:42018**
Telyakovskiĭ, S. A. Weighted integral estimates for lacunary trigonometric series. (Russian) **97k:42019**
Zhou, Kecheng *see* **Sagher, Yoram**, **97k:42018**

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Finet, Catherine (*with* Tardivel-Nachef, Valérie) Haar invariant sets and compact transformation groups. **97a:43007**
Karanikas, C. *see* **Bisbas, A.; et al.**, **97k:43002**
Li, Daniel Complex unconditional metric approximation property for $\mathscr{C}_\Lambda(\mathbf{T})$ spaces. (English summary) **97k:43008**
Lyons, Russell Seventy years of Rajchman measures. (English and French summaries) **97b:42019**
Moran, William *see* **Bisbas, A.; et al.**, **97k:43002**
Olevskiĭ, A. M. Kolmogorov's theorems in Fourier analysis. **97f:42012**
Reyes, Noli N. On the pointwise behavior of some lacunary wavelet series. (English summary) **97j:42018**
Tardivel-Nachef, Valérie *see* **Finet, Catherine**, **97a:43007**
Yoshida, Masamichi Odometer action on Riesz product. (English summary) **97i:28013**

42A61 Probabilistic methods

Seip, Kristian (*with* Ulanovskiĭ, A. M.) Random exponential frames. **97f:42019**
— (*with* Ulanovskiĭ, A. M.) The Beurling-Malliavin density of a random sequence. (English summary) **97g:42003**
Ulanovskiĭ, A. M. *see* **Seip, Kristian**, **97f:42019** *and* **97g:42003**

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Berkes, István On the convergence of $\sum c_n f(nx)$ and the Lip 1/2 class. (English summary) **97m:42007**
DeVore, Ronald A. (*with* Temlyakov, V. N.) Nonlinear approximation by trigonometric sums. (English summary) **97c:42003**
Fernique, X. Un exemple illustrant l'emploi des méthodes gaussiennes. (English summary) [An example illustrating the use of Gaussian methods] **97c:60100**
Harrison, Kenneth J. (*with* Ramsey, L. Thomas) On partitioning Sidon sets with quasi-independent sets. **97b:42018**
Karagulyan, G. A. On the growth order $o(\log\log n)$ of partial sums of Fourier-Stieltjes series of random measures. (Russian) **97d:42007**
Peres, Yuval (*with* Solomyak, Boris) Absolute continuity of Bernoulli convolutions, a simple proof. (English summary) **97f:28006**
Queffelec, Hervé (*with* Saffari, Bahman) On Bernstein's inequality and Kahane's ultraflat polynomials. (English summary) **97h:41027**
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Solomyak, Boris *see* **Peres, Yuval**, **97f:28006**
Temlyakov, V. N. *see* **DeVore, Ronald A.**, **97c:42003**

42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Kholshchevnikova, N. N. On the de la Vallée-Poussin theorem on the uniqueness of the representation of a function by a trigonometric series. (Russian. Russian summary) **97f:42020**
Lyons, Russell Seventy years of Rajchman measures. (English and French summaries) **97b:42019**

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Gevorkyan, G. G. On trigonometric integrals summable by the Riemann method. (Russian. English and Russian summaries) **97c:42014**
Selig, Kathi Trigonometric wavelets and the uncertainty principle. (English summary) **97c:42058**
Tetunashvili, Sh. T. On the uniqueness of multiple trigonometric series. (Russian. Russian summary) **97a:42002**
Zelený, Miroslav Calibrated thin Π^1_1 σ-ideals are G_δ. (English summary) **97m:03080**

42A65 Completeness of sets of functions

Ghusayni, Badih On approximation by a nonfundamental sequence of translates. (English summary) **97f:42021**
Nillsen, Rodney Differentiate and make waves. **97g:42004**
Sedletskiĭ, A. M. Construction of complete minimal, but not uniformly minimal in L^p and C, systems of exponentials with a real separable spectrum. (Russian. Russian summary) **97c:42018**

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Bilalov, B. T. On the basis property of the system $\{e^{i\omega n x}\sin nx\}_1^\infty$ and of a system of exponentials with shift. (Russian) **97e:42009**
Moiseev, E. I. (*with* Prudnikov, A. P.) On the basis property of systems of sines and cosines in the Sobolev spaces. (English summary) **97m:46053**
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Schatzman, James C. Accuracy of the discrete Fourier transform and the fast Fourier transform. (English summary) **97e:65155**

42A70 Trigonometric moment problems

Items with secondary classifications in 42A70

Ball, Joseph A. (*with* Gohberg, Israel; Kaashoek, Marinus A.) The band method and Grassmannian approach for completion and extension problems. (English summary) **97d:47021**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Numerical quadratures on the unit circle. A survey with some new results. (English summary) **97a:41031**
Gohberg, Israel *see* **Ball, Joseph A.; et al.**, **97d:47021**
González-Vera, Pablo *see* **Bultheel, Adhemar; et al.**, **97a:41031**
Hendriksen, Erik *see* **Bultheel, Adhemar; et al.**, **97a:41031**
Kaashoek, Marinus A. *see* **Ball, Joseph A.; et al.**, **97d:47021**
Lee, Seng Luan (*with* Osman, Rohaisan) Asymptotic formulas for convolution operators with spline kernels. (English summary) **97a:41025**
Njåstad, Olav *see* **Bultheel, Adhemar; et al.**, **97a:41031**
Osman, Rohaisan *see* **Lee, Seng Luan**, **97a:41025**

42A75 Classical almost periodic functions, mean periodic functions [see also 43A60]

Batt, J. (*with* Deshpande, M. V.) Weak convergence and weak compactness in the space of almost periodic functions on the real line. (English summary) **97k:42020**
Bersani, A. M. On the Hausdorff-Young theorem for Hilbert vector valued Besicovitch a.p. functions spaces. (English and Italian summaries) **97f:42022**
Collet, Pierre Sampling almost-periodic functions with random probes of finite density. (English summary) **97k:42021**
Dell'Acqua, G. (*with* Santucci, P.) Embedding theorems for Sobolev-Besicovitch spaces $W^{k,1}_{\mathrm{ap}}(\mathbf{R}^s)$. (English and Italian summaries) **97i:42008**

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Stoiński, Stanisław A note on H-almost periodic functions and S^p-almost periodic functions. **97i:42009**

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Casado-Díaz, Juan (*with* Gayte, Inmaculada) A general compactness result and its application to the two-scale convergence of almost periodic functions. (English and French summaries) **97d:46095**
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Pych-Taberska, P. (*with* Topolewska, M.) Approximation of almost periodic functions by convolution type operators. (English summary) **97m:41018**
Roth, Jean-Pierre Analyse harmonique sur les graphes réels et fonctions moyenne-périodiques. (English and French summaries) [Harmonic analysis on real graphs and mean-periodic functions] **97d:43014**
Topolewska, M. *see* **Pych-Taberska, P., 97m:41018**

42A82 Positive definite functions

Items with secondary classifications in 42A82

Cachafeiro López, Ma. Alicia (*with* Suárez Rodríguez, M. Carmen) Kernels on the unit circle. Orthogonality. (English summary) **97k:42047**
Misiewicz, Jolanta K. Sub-stable and pseudo-isotropic processes—connections with the geometry of sub-spaces of L_α-spaces. (English summary) **97k:60040a**
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Norvidas, Saulius Continuity of functions operating on characteristic functions. (English summary) **97a:43006**
Ron, Amos (*with* Sun, Xingping) Strictly positive definite functions on spheres in Euclidean spaces. (English summary) **97a:41032**
Suárez Rodríguez, M. Carmen *see* **Cachafeiro López, Ma. Alicia, 97k:42047**
Sun, Xingping *see* **Ron, Amos, 97a:41032**

42A85 Convolution, factorization

Harrison, Kenneth J. (*with* Ward, J. A.) Fractional covers for convolution products. (English summary) **97k:42022**
Nees, Manuela Two-sided deconvolution for bandlimited kernels. (English summary) **97h:42007**
Ward, J. A. *see* **Harrison, Kenneth J., 97k:42022**

Items with secondary classifications in 42A85

Hu, Tian-You The local dimensions of the Bernoulli convolution associated with the golden number. (English summary) **97i:28003**

42A99 None of the above, but in this section

Bucur, Constantin M. Éléments d'analyse Fourier sur des ensembles finis. (English, French and Romanian summaries) [Elements of Fourier analysis on finite sets]
Walker, W. J. A summability method for the arithmetic Fourier transform. (English summary) **97i:42010**
Yurkin, M. Yu. Geometric minimality conditions for systems of exponentials in $L_p[-\pi,\pi]$. (Russian. Russian summary) **97c:42019**

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Alekseev, V. G. Kernels of Jackson and Jackson-de la Vallée Poussin types and their probability interpretations. (Russian. Russian summary) **97c:62225**
Averbuch, Amir *see* **Vozovoi, L.; et al., 97g:65284**
Groemer, H. ★ Geometric applications of Fourier series and spherical harmonics. (English summary) **97j:52001**
Israeli, Moshe *see* **Vozovoi, L.; et al., 97g:65284**
Vozovoi, L. (*with* Israeli, Moshe; Averbuch, Amir) Analysis and application of Fourier-Gegenbauer method to stiff differential equations. (English summary) **97g:65284**

42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

42B05 Fourier series and coefficients

Bhatia, Satvinder Singh *see* **Ram, Babu, 97b:42020**
Davydov, O. V. Sequences of rectangular Fourier sums of continuous functions with given majorants of mixed moduli of smoothness. (Russian. Russian summary) **97f:42023**
D'yachenko, M. I. Waterman classes and spherical partial sums of double Fourier series. (Russian summary) **97m:42009**
Karagulyan, G. A. The Hilbert transformation and exponential integral estimates for rectangular partial sums of double Fourier series. (Russian. Russian summary) **97f:42024**
Konyagin, Sergei V. On divergence of trigonometric Fourier series over cubes. (English summary) **97m:42010**
Laković, Bosa *see* **Potapov, M. K.; et al., 97f:42025**
Potapov, M. K. (*with* Simonov, B. V.; Laković, Bosa) On estimates for the mixed modulus of continuity of a function with a transformed Fourier series. (Russian. English and Russian summaries) **97f:42025**
Ram, Babu (*with* Bhatia, Satvinder Singh) Integrability and L^1-convergence of complex double trigonometric series with special coefficients. (English summary) **97b:42020**
Simonov, B. V. *see* **Potapov, M. K.; et al., 97f:42025**
Talalyan, N. A. Approximation of random integral means of integrable functions by integral means of partial sums of their Fourier series. (Russian. English and Russian summaries) **97b:42021**
Temlyakov, V. N. An inequality for trigonometric polynomials and its application for estimating the Kolmogorov widths. (English summary) **97g:42005**
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Tevzadze, T. Sh. Estimation of the integral modulus of smoothness of an even function of several variables with quasiconvex Fourier coefficients. (English summary) **97g:42006**
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Bourgain, Jean Spherical summation and uniqueness of multiple trigonometric series. **97b:42022**
Ch'ên, Chang P'ao (*with* Chen, Gwo-Bin) Uniform convergence of double trigonometric series. (English summary) **97d:42006**
Chen, Gwo-Bin *see* **Ch'ên, Chang P'ao, 97d:42006**
Chiccoli, C. *see* **Lorenzutta, S.; et al., 97b:33023**
Dattoli, G. *see* **Lorenzutta, S.; et al., 97b:33023**
DeVore, Ronald A. (*with* Temlyakov, V. N.) Nonlinear approximation by trigonometric sums. (English summary) **97c:42003**
Ha, Young-Hwa (*with* Lee, Jin) Uniqueness of square convergent trigonometric series. **97b:42012**
Lee, Jin *see* **Ha, Young-Hwa, 97b:42012**
Lorenzutta, S. (*with* Maino, G.; Dattoli, G.; Torre, Amalia; Chiccoli, C.) On infinite-variable Bessel functions. (English and Italian summaries) **97b:33023**
Maino, G. *see* **Lorenzutta, S.; et al., 97b:33023**
Ortner, Norbert (*with* Wagner, Peter[2]) Series, the convergence of which should be interpreted in the sense of L. Schwartz's distributions. (English summary) **97i:33003**
Temlyakov, V. N. *see* **DeVore, Ronald A., 97c:42003**
Torre, Amalia *see* **Lorenzutta, S.; et al., 97b:33023**
Uhrin, Béla New lower bounds for the number of lattice points in a difference set. (English summary) **97k:11103**
Wagner, Peter[2] *see* **Ortner, Norbert, 97i:33003**

42B08 Summability

Baron, Simson (*with* Liflyand, E. R.; Skopina, M.) On the summability of double Fourier series at a point. (English summary) **97c:42020**
Berens, Hubert (*with* Xu, Yuan[1]) Fejér means for multivariate Fourier series. **97a:42003**
Bourgain, Jean Spherical summation and uniqueness of multiple trigonometric series. **97b:42022**
Getzadze, R. D. On the strong summability of multivariate Fourier series. (English summary) **97k:42023**
Lal, Shyam A study of double Fourier series by Nörlund summability. (English summary)
Liflyand, E. R. (*with* Ramm, Alexander G.; Zaslavsky, Alexander I.) Estimates from below for Lebesgue constants. (English summary) **97g:42007**
— On the Bochner-Riesz means of critical order. (English summary) **97g:42008**
— *see also* **Baron, Simson; et al., 97c:42020**
Mirmukhamedov, S. M. On a test of Jordan type for double Fourier series with respect to multiplicative systems. (Russian summary) **97c:42021**
Miyamoto, Ikuko *see* **Okuyama, Yasuo, 97f:42027**
Okuyama, Yasuo (*with* Miyamoto, Ikuko) On the double Nörlund summability of double Fourier series. (English summary) **97f:42027**
Ramm, Alexander G. *see* **Liflyand, E. R.; et al., 97g:42007**
Sato, Shuichi[1] Divergence of the Bochner-Riesz means in the weighted Hardy spaces. (English summary) **97f:42028**
Skopina, M. *see* **Baron, Simson; et al., 97c:42020**
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Zaslavsky, Alexander I. *see* **Liflyand, E. R.; et al., 97g:42007**

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Kuang, Ji Chang Elliptic Riesz operators on the weighted special atom spaces. (English summary) **97a:42014**
Móricz, Ferenc On the maximal Fejér operator for double Fourier series of functions in Hardy spaces. (English summary) **97a:47044**

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Bak, Jong-Guk (*with* McMichael, David) Convolution of a measure with itself and a restriction theorem. (English summary) **97d:42011**
Carton-Lebrun, C. Fourier inequalities and moment subspaces in weighted Lebesgue spaces. (English summary) **97c:42022**
Fan, Da Shan Restriction theorems related to atoms. **97j:42004**
Ikromov, I. A. On an estimate for the Fourier transform of the indicator of nonconvex domains. (Russian. Russian summary) **97c:42023**
Kilmer, S. J. (*with* Light, W. A.; Sun, Xingping; Yu, Xiang Ming) Approximation by translates of a positive definite function. **97f:42029**
Light, W. A. *see* **Kilmer, S. J.; et al., 97f:42029**
McMichael, David *see* **Bak, Jong-Guk, 97d:42011**
Pinsky, Mark A. Fourier inversion in several variables—a new look at an old problem. (English summary) **97b:42023**
Stănăşilă, O. On the multidimensional Fourier transform. (English summary)
Sun, Xingping *see* **Kilmer, S. J.; et al., 97f:42029**
Yu, Xiang Ming *see* **Kilmer, S. J.; et al., 97f:42029**

Zhang, Zhen Qiu Fourier transforms over H^a and restriction theorems for them. (Chinese. Chinese summary) **97m:42011**

Items with secondary classifications in 42B10

Emara, Salah A. A. Weighted inequalities with an arbitrary convex function. (English summary) (*see* **97a:00029**)
Fan, Da Shan (*with* Pan, Yibiao) Oscillatory integrals and atoms on the unit sphere. **97c:42027**
Ha Huy Bang Asymptotic behaviour of the sequence of norms of derivatives. (English summary) **97i:26017**
Holschneider, Matthias Wavelet analysis of partial differential operators. (English summary) **97i:35006**
Hyb, Wojciech Bergman function, Genchev transform and L^2-angles for multidimensional tubes. **97i:32030**
Ismagilov, R. S. On the Pauli problem. (Russian) **97d:22025**
Jørgensen, Palle E. T. (*with* Pedersen, Steen) Estimates on the spectrum of fractals arising from affine iterations. (English summary) **97f:28017**
— (*with* Pedersen, Steen) Harmonic analysis of fractal measures. (English summary) **97c:46091**
Lang, Enrico Power series, uncertainty inequalities and real zeros of Fourier transforms. **97m:42005**
Lee, Kyoung Sim Gel'fand triples associated with finite-dimensional Gaussian measure. (English summary) **97b:60072**
Li, Chun² (*with* McIntosh, Alan) Clifford algebras and H_∞ functional calculi of commuting operators. **97f:47015**
McBride, Adam C. (*with* Rubin, Boris) Multidimensional fractional integrals and distributions. (English summary) **97m:46061**
McIntosh, Alan Clifford algebras, Fourier theory, singular integrals, and harmonic functions on Lipschitz domains. **97g:42013**
— *see also* **Li, Chun², 97f:47015**
Ortner, Norbert (*with* Wagner, Peter²) Fundamental solution of hyperbolic differential operators and the Poisson summation formula. (English summary) **97j:35010**
Pan, Yibiao *see* **Fan, Da Shan, 97c:42027**
Pedersen, Steen *see* **Jørgensen, Palle E. T., 97c:46091** *and* **97f:28017**
Regińska, Teresa Sideways heat equation and wavelets. (English summary) **97b:35187**
Rubin, Boris *see* **McBride, Adam C., 97m:46061**
Soraggi, Roberto Luiz Fourier analysis on Colombeau's algebra of generalized functions. (English summary) **97m:46067**
Wagner, Peter² *see* **Ortner, Norbert, 97j:35010**

42B15 Multipliers

Bak, Jong-Guk Sharp estimates for the Bochner-Riesz operator of negative order in $\mathbf{R}^2$. (English summary) **97i:42011**
Burenkov, V. I. (*with* Tuyakbaev, M. Sh.) Multipliers of the Fourier integral in weighted L_p-spaces with an exponential weight. II. (Russian) **97c:42024**
Chen, Lung-Kee (*with* Fan, Da Shan) The multiplier operators on the weighted product spaces. (English summary) **97b:42024**
Cho, Yong-Kum A sharp (H^1, L^1) continuity theorem for the Rubio de Francia maximal multiplier operator. **97b:42025**
Fan, Da Shan (*with* Xu, Zeng Fu) A Hörmander multiplier theorem on Besov spaces. (English and Chinese summaries) **97c:42025**
— *see also* **Chen, Lung-Kee, 97b:42024**
Hu, Guoen (*with* Lu, Shan Zhen) The commutator of the Bochner-Riesz operator. (English summary) **97k:42024**
— (*with* Lu, Shan Zhen) A weighted L^2 estimate for the commutator of the Bochner-Riesz operator. (English summary) **97m:42012**
Lebedev, V. V. (*with* Olevskiĭ, A. M.) Bounded groups of translation invariant operators. (English and French summaries) **97b:42026**
Lu, Shan Zhen *see* **Hu, Guoen, 97k:42024** *and* **97m:42012**
Nakai, Eiichi Weighted BMO on homogeneous spaces. (Japanese) (*see* **97i:00016**)
Oberlin, Daniel M. A convolution estimate for a measure on a curve in $\mathbf{R}^4$. (English summary) **97g:42009**
Olevskiĭ, A. M. *see* **Lebedev, V. V., 97b:42026**
Seeger, Andreas Endpoint inequalities for Bochner-Riesz multipliers in the plane. (English summary) **97j:42005**
Stempak, Krzysztof Transplanting maximal inequalities between Laguerre and Hankel multipliers. (English summary) **97g:42010**
Tuyakbaev, M. Sh. *see* **Burenkov, V. I., 97c:42024**
Woźniakowski, Krzysztof A new proof of the restriction theorem for weak type (1, 1) multipliers on $\mathbf{R}^n$. **97k:42025**
Xu, Zeng Fu *see* **Fan, Da Shan, 97c:42025**

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Cowling, Michael (*with* Doust, Ian; McIntosh, Alan; Yagi, Atsushi) Banach space operators with a bounded H^∞ functional calculus. (English summary) **97d:47023**
De Carli, Laura (*with* Iosevich, Alex) A restriction theorem for flat manifolds of codimension two. **97a:42015**
Doust, Ian *see* **Cowling, Michael; et al., 97d:47023**
Duong, Xuan Thinh From the L^1 norms of the complex heat kernels to a Hörmander multiplier theorem for sub-Laplacians on nilpotent Lie groups. (English summary) **97h:43002**
Iosevich, Alex *see* **De Carli, Laura, 97a:42015**
McIntosh, Alan *see* **Cowling, Michael; et al., 97d:47023**
Müller, Detlef (*with* Ricci, Fulvio; Stein, Elias M.) Marcinkiewicz multipliers and multi-parameter structure on Heisenberg (-type) groups. II. **97c:43007**
Ricci, Fulvio *see* **Müller, Detlef; et al., 97c:43007**
Ricker, Werner J. Spectrality for matrices of Fourier multiplier operators acting in L^p-spaces over LCA groups. (English summary) **97e:47048**
Stein, Elias M. *see* **Müller, Detlef; et al., 97c:43007**
Stokolos, A. M. On a problem of M. de Guzmán on Fourier multipliers of polygonal domains. (Russian. Russian summary) **97b:42017**
Yagi, Atsushi *see* **Cowling, Michael; et al., 97d:47023**

42B20 Singular integrals (Calderón-Zygmund, etc.)

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Chen, Wen Zhong Durrmeyer-Stieltjes operators. (Chinese. English and Chinese summaries)
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— *see also* **Lu, Shan Zhen, 97a:42005**
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Kokilashvili, V. M. *see* **Genebashvili, I.; et al., 97k:42029**
Kuang, Ji Chang M_α type Calderón-Zygmund operators on product spaces. (English and Chinese summaries) **97f:42030**
— On weighted H^p boundedness of C-Z type singular integral operators. (English summary) **97c:42028**
Lan, Jia Cheng Weighted inequalities for a class of commutators. (Chinese. English and Chinese summaries) **97f:42031**
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Qian, Tao Singular integrals with monogenic kernels on the m-torus and their Lipschitz perturbations. (English summary) **97f:42032**
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Sagher, Yoram (*with* Xiang, Niandi) Complex methods in the calculation of some distribution functions. **97k:42034**
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Tchamitchian, Philippe *see* **Auscher, Pascal, 97k:42026**
Vági, Stephen *see* **Gatto, A. Eduardo; et al., 97k:42028**
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Wang, Jian[1] *see* **Yu, Hong Qi**
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Xiang, Niandi *see* **Sagher, Yoram, 97k:42034**
Xiang, Yang Qi Fast algorithms for Calderón-Zygmund singular integral operators. (English summary) **97k:42035**
Yang, Da Chun On $HK_p(\mathbf{R}^n)$-boundedness of oscillatory singular integrals and its localized operators. (English and Chinese summaries) **97k:42036**
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Yin, Cheng Yuan A definition of a kind of singular integral on a complex hypersphere. (Chinese. English and Chinese summaries) **97f:42033**
Youssfi, Abdellah Regularity properties of singular integral operators. (English summary) **97k:42037**
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Amrouche, C. (*with* Girault, Vivette; Giroire, J.) Calderón-Zygmund inequalities, Riesz potentials and Riesz transforms in weighted Sobolev spaces. (English summary) **97j:46025**
Cianchi, Andrea A note on two-weight inequalities for maximal functions and singular integrals. **97k:42040**
Coulhon, Thierry (*with* Müller, Detlef; Zienkiewicz, Jacek) About Riesz transforms on the Heisenberg groups. **97f:22015**
Ding, Yong (*with* Lu, Shan Zhen) The $L^{p_1} \times L^{p_2} \times \cdots \times L^{p_n}$ boundedness for some rough operators. (English summary) **97h:47068**
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Girault, Vivette *see* **Amrouche, C.; et al., 97j:46025**
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Guadalupe Hernández, José Javier (*with* Pérez, Mario; Ruiz Blasco, Francisco José) Estimates for commutators of orthogonal Fourier series. (English summary) **97k:42058**
Gunawan, Hendra On weighted estimates for Stein's maximal function. (English summary) **97f:42034**
Hajłasz, Piotr On approximate differentiability of functions with bounded deformation. (English summary) **97f:46049**
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— (*with* Preiss, David) Rectifiable measures in $\mathbf{R}^n$ and existence of principal values for singular integrals. **97c:28011**
— (*with* Paramonov, P. V.) On geometric properties of harmonic Lip_1-capacity. (English summary) **97b:31005**
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McIntosh, Alan *see* **Albrecht, David; et al., 97e:47001**
Mitrea, Marius Hypercomplex variable techniques in harmonic analysis. **97d:30063**
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Nag, Subhashis Singular Cauchy integrals and conformal welding on Jordan curves. (English summary) **97c:30010**
Oberlin, Daniel M. A convolution estimate for a measure on a curve in $\mathbf{R}^4$. (English summary) **97g:42009**
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Ramm, Alexander G. *see* **Katsevich, Alexander I., 97b:44004**
Raposo, José A. (*with* Soria, Javier) Best approach regions for potential spaces. (English summary) **97f:42036**
Ricci, Fulvio *see* **Müller, Detlef; et al., 97c:43007**
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Su, Wei Yi Operators–derivatives–spaces–differential equations on locally compact Vilenkin groups. (English summary) **97d:42027**
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Wheeden, Richard L. *see* **Franchi, Bruno; et al., 97k:26012**
Wu, Jang-Mei *see* **Kaufman, Robert, 97k:28006**
Yang, Da Chun *see* **Lu, Shan Zhen, 97g:46026**
Zienkiewicz, Jacek *see* **Coulhon, Thierry; et al., 97f:22015**

42B25 Maximal functions, Littlewood-Paley theory

Arcozzi, Nicola (*with* Di Biase, Fausto; Urbanke, Rüdiger) Approach regions for trees and the unit disc. **97h:42009**
Bagby, Richard J. (*with* Masaedeh, Basem) Optimal extrapolation of weight conditions. (English summary) **97k:42038**
Carbery, A. (*with* Wainger, Stephen; Wright, James Robert) Hilbert transforms and maximal functions along variable flat plane curves. (English summary) **97b:42030**
Chang, Xin Yi Lipschitz functions and Littlewood-Paley g-functions on homogeneous spaces. (Chinese. English and Chinese summaries) **97m:42014**
— Boundedness of the Littlewood-Paley function g_λ^* and the area function on $\mathrm{Lip}_\alpha(\mathbf{R}^n)$. (Chinese. English and Chinese summaries) **97k:42039**
Chevalier, Lucien (*with* Rosay, Jean-Pierre) A characterization of lines among Lipschitz graphs. **97g:42014**
Cho, Yong-Kum Strong maximal means with respect to non-product measures. **97a:42009**
Cianchi, Andrea A note on two-weight inequalities for maximal functions and singular integrals. **97k:42040**
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Duoandikoetxea, Javier (*with* Vargas, Ana M.) Directional operators and radial functions on the plane. (English summary) **97e:42031**
— (*with* Vega, Luis) Spherical means and weighted inequalities. (English summary) **97c:42032**
Gunawan, Hendra On weighted estimates for Stein's maximal function. (English summary) **97f:42034**
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— Averages over homogeneous hypersurfaces in $\mathbf{R}^3$. (English summary) **97m:42015**
Kita, Hiroō On maximal functions in Orlicz spaces. (English summary) **97b:42031**
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Kuang, Ji Chang Pointwise convergence of operator families. (Chinese. English and Chinese summaries) **97b:42032**
— Boundedness of L-P type operators on $L(\alpha, p)$. (English and Chinese summaries) **97c:42033**
Lan, Jia Cheng Weighted inequalities for maximal functions of fractional order and integrals of fractional order when $p = 1$. (Chinese. English and Chinese summaries) **97k:42041**
Li, Deng Feng[2] Weighted weak $(1, 1)$ inequalities of one-sided Hardy-Littlewood maximal operators. (Chinese. English and Chinese summaries)
Li, Fu Min The ε-family of operators on normal homogeneous spaces and Littlewood-Paley theory. (Chinese. English and Chinese summaries)
Li, Xiuwei (*with* Yang, Da Chun) Boundedness of some sublinear operators on Herz spaces. **97j:42008**
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Lu, Shan Zhen (*with* Yang, Da Chun) The central BMO spaces and Littlewood-Paley operators. (English summary) **97d:42015**
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Luo, Cheng A distribution inequality for f_u^* and $M_u f$. (Chinese. English and Chinese summaries)
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Miyamoto, Takashi[2] On a weighted norm inequality for the Hardy-Littlewood maximal function in $L(\log^+ L)^\varepsilon + L(\log^- L)^{-\varepsilon}$. (English summary) **97c:42034**
Moyua, A. (*with* Vargas, Ana M.; Vega, Luis) Schrödinger maximal function and restriction properties of the Fourier transform. **97k:42042**
Oberlin, Daniel M. An endpoint estimate for some maximal operators. **97m:42016**
Rakotondratsimba, Yves Weighted inequalities for maximal operators via atomic decompositions of tent spaces. (English summary) **97i:42014**
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Raposo, José A. (*with* Soria, Javier) Best approach regions for potential spaces. (English summary) **97f:42036**
Rosay, Jean-Pierre *see* **Chevalier, Lucien, 97g:42014**
Saeki, Sadahiro On the reproducing formula of Calderón. (English summary) **97a:42011**
Salinas, Oscar *see* **Harboure, Eleonor; et al., 97d:42014**
Sato, Shuichi[1] Weak type estimates for some maximal operators on the weighted Hardy spaces. (English summary) **97b:42033**
Sawyer, E. T. *see* **Iosevich, Alex, 97f:42035**
Schlag, Wilhelm A generalization of Bourgain's circular maximal theorem. **97c:42035**
Schröder, Bernd S. W. On pasting A_p-weights. (English summary) **97a:42012**
Soria, Javier *see* **Raposo, José A., 97f:42036**
Su, Wei Yi Para-product operators and para-linearization on locally compact Vilenkin groups. (English summary) **97a:42013**
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Tanaka, Hitoshi An elementary proof of an estimate for the Kakeya maximal operator on functions of product type. (English summary) **97h:42010**
Torrea Hernández, José Luis *see* **Harboure, Eleonor; et al., 97a:42010**
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Vargas, Ana M. *see* **Duoandikoetxea, Javier, 97c:42031** *and* **Moyua, A.; et al., 97k:42042**
Vega, Luis *see* **Duoandikoetxea, Javier, 97c:42032** *and* **Moyua, A.; et al., 97k:42042**
Viviani, Beatriz *see* **Harboure, Eleonor; et al., 97a:42010** *and* **97d:42014**
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Bui, H.-Q. (*with* Paluszyński, Maciej; Taibleson, Mitchell H.) A maximal function characterization of weighted Besov-Lipschitz and Triebel-Lizorkin spaces. (English summary) **97c:46040**
Cho, Yong-Kum A sharp (H^1, L^1) continuity theorem for the Rubio de Francia maximal multiplier operator. **97b:42025**
Ding, Yong (*with* Lu, Shan Zhen) The $L^{p_1} \times L^{p_2} \times \cdots \times L^{p_k}$ boundedness for some rough operators. (English summary) **97h:47068**
Epperson, Jay (*with* Frazier, Michael W.) Polar wavelets and associated Littlewood-Paley theory. (English summary) **97b:42049**
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Gatto, A. Eduardo (*with* Vági, Stephen) On functions arising as potentials on spaces of homogeneous type. (English summary) **97g:31009**
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Lu, Shan Zhen (*with* Jiang, Yin Sheng) Weighted norm inequalities for maximal and singular integral operators. (English and Chinese summaries) **97a:42005**
— *see also* **Ding, Yong, 97h:47068** *and* **Hu, Guoen, 97m:42012**
Martín-Reyes, F. J. *see* **Aimar, Hugo; et al., 97i:42012**
Milman, Mario A note on Gehring's lemma. (English summary) **97h:46049**
Paluszyński, Maciej *see* **Bui, H.-Q.; et al., 97c:46040**
Pérez, Mario *see* **Guadalupe Hernández, José Javier; et al., 97f:42044**
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Schipp, Ferenc (*with* Wade, William R.) A fundamental theorem of dyadic calculus for the unit square. (English summary) **97d:42025**
Stempak, Krzysztof Transplanting maximal inequalities between Laguerre and Hankel multipliers. (English summary) **97g:42010**
Stokolos, A. M. On differentiation of integrals with respect to bases of convex sets. (English summary) **97f:28008**
Sun, Jim Qile The modular inequalities for a class of convolution operators on monotone functions. (English summary) **97j:26016**
Svensson, Olof Nonadmissible convergence in symmetric spaces. **97g:43005**
Sweezy, Caroline Absolute continuity for elliptic-caloric measures. (English summary) **97h:35036**
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Vági, Stephen *see* **Gatto, A. Eduardo, 97g:31009**
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Wade, William R. *see* **Schipp, Ferenc, 97d:42025**
Wainger, Stephen *see* **Kim, Weon-Ja; et al., 97b:42029**
Wheeden, Richard L. (*with* Wilson, J. Michael) Weighted norm estimates for gradients of half-space extensions. (English summary) **97c:31010**
— (*with* Zhao, Shi Ying) Weak type estimates for operators of potential type. (English summary) **97d:42013**
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Young, Wo-Sang Almost everywhere convergence of lacunary partial sums of Vilenkin-Fourier series. (English summary) **97b:42047**
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— Weighted weak-type inequalities for the maximal function of nonnegative integral transforms over approach regions. (English summary) **97i:42013**
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42B30 H^p-spaces

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Schipp, Ferenc (*with* Wade, William R.) A fundamental theorem of dyadic calculus for the unit square. (English summary) **97d:42025**
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42Cxx Nontrigonometric Fourier analysis

42C05 Orthogonal functions and polynomials, general theory [see also 33C45, 33C50, 33D45]

Alaya, J. (*with* Maroni, Pascal) Some semi-classical and Laguerre-Hahn forms defined by pseudo-functions. (English summary) **97k:42046**
Alfaro, Manuel *see* **Montaner, J. M., 97a:42021**
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von Bachhaus, Anton L. W. Differential recurrence formulae for orthogonal polynomials. (English summary) **97a:42016**
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Berg, Christian (*with* Durán Guardeño, Antonio J.) When does a discrete differential perturbation of a sequence of orthonormal polynomials belong to l^{2}? (English summary) **97c:42038**
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— (*with* Maroni, Pascal) The algebra of linear functionals on polynomials, with applications to Padé approximation. (English summary) **97b:42037**
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Ehrich, Sven Asymptotic behaviour of Stieltjes polynomials for ultraspherical weight functions. (English summary) **97c:42041**
Ellis, Robert Lee (*with* Gohberg, Israel) Distribution of zeros of orthogonal functions related to the Nehari problem. (English summary) **97k:42049**
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Sharapudinov, I. I. On the boundedness in $C[-1,1]$ of de la Vallée-Poussin means for discrete Fourier-Chebyshev sums. (Russian. Russian summary) **97c:42047**
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Bashmakova, I. B. (*with* Rafal'son, S. Z.) On the approximation of continuous functions by Fourier-Legendre sums. (English summary) **97e:41037**
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Branquinho, Amilcar (*with* Marcellán, Francisco) Generating new classes of orthogonal polynomials. (English summary) **97j:33012**
Brown, Gavin (*with* Koumandos, Stamatis; Wang, Kun-Yang) Positivity of Cotes numbers at more Jacobi abscissas. (English summary) **97k:33006**
Bultheel, Adhemar (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Numerical quadratures on the unit circle. A survey with some new results. (English summary) **97a:41031**
— (*with* González-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Orthogonal rational functions and modified approximants. (English summary) **97a:41016**
Cai, Wei (*with* Wang, Jian Zhong[2]) Adaptive multiresolution collocation methods for initial-boundary value problems of nonlinear PDEs. (English summary) **97c:65182**
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Connett, William C. (*with* Schwartz, Alan Lee) Subsets of **R** which support hypergroups with polynomial characters. (English summary) **97c:43011**
Damelin, S. B. (*with* Lubinsky, Doron S.) Necessary and sufficient conditions for mean convergence of Lagrange interpolation for Erdős weights. I, II. (English summary) **97i:41006**
— Weighted approximation for Erdős weights.
Ditzian, Z. (*with* Lubinsky, Doron S.) Jackson and smoothness theorems for Freud weights in L_p $(0 < p \leq \infty)$. (English summary) **97k:41028**
Dombrowski, J. (*with* Pedersen, Steen) Orthogonal polynomials, spectral measures, and absolute continuity. (English summary) **97b:47027**
Douak, Khalfa The relation of the d-orthogonal polynomials to the Appell polynomials. (English summary) **97k:33007**
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Grosjean, Carl C. New sequences of orthogonal polynomials deduced from solutions of first-order initial-value problems: application to the classical orthogonal polynomials of Jacobi and Hermite. (English and Dutch summaries) **97b:33012**
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Lyskova, A. S. Polynomial solutions of a certain class of ordinary differential equations. (Russian) **97c:34171**
Magnus, Alphonse P. Special nonuniform lattice (snul) orthogonal polynomials on discrete dense sets of points. (English summary) **97a:33022**
Mantica, Giorgio A stable Stieltjes technique for computing orthogonal polynomials and Jacobi matrices associated with a class of singular measures. (English summary) **97k:33011**
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Nakamura, Yoshimasa Families of probability distributions and integrable transformations of orthogonal polynomials—the relationship between moment problems and tau functions. (Japanese) **97e:58116**
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Pinsky, Mark A. (*with* Prather, Carl) Pointwise convergence of n-dimensional Hermite expansions. **97g:42023**
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— (*with* Walter, Gilbert G.) Characterization of analytic functions in terms of their wavelet coefficients. (English summary) **97g:42034**
Zhang, Ze Yin (*with* Wang, Jian Zhong[2]) On necessary and sufficient conditions for duals of wavelet frames. (English summary) **97j:42021**
— The invariance of wavelet frames with oversampling in Euclidean space. (Chinese. Chinese summary) **97b:42062**
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Zhou, Ding-Xuan Linear dependence relations in wavelets and tilings. (English summary) **97h:42026**
— Stability of refinable functions, multiresolution analysis, and Haar bases. (English summary) **97h:42027**

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Avdonin, S. A. (*with* Ivanov, Sergeĭ Alekseevich) ★ Families of exponentials. (English summary) **97b:93002**
Bagarello, Fabio Applications of wavelets to quantum mechanics: a pedagogical example. (English summary) **97h:81259**
Bao, Zheng *see* **Shi, Zhuo'er**
Baron, Simson (*with* Joó, István) On the influence of Lebesgue functions on the summability of double function series. **97c:40002**
Ben Nahia, Zouhir (*with* Ben Salem, Nejib) Spherical harmonics and applications associated with the Weinstein operator. (English summary) **97i:35028**
Ben Salem, Nejib *see* **Ben Nahia, Zouhir, 97i:35028**
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Cohen, Albert (*with* Ryan, Robert D.) ★ Wavelets and multiscale signal processing. (English summary) **97k:42048**
— (*with* Dyn, Nira) Nonstationary subdivision schemes and multiresolution analysis. (English summary) **97m:41019**
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Dahmen, Wolfgang Stability of multiscale transformations. (English summary) **97i:46133**
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DeVore, Ronald A. (*with* Jawerth, Björn; Lucier, Bradley J.) Image compression through wavelet transform coding. **97h:68139**
Duan, Yu Rong (*with* Yan, Xin Xiang; Zheng, Ji Ming) Application of multifractal and wavelet transforms to predict oil and gas reserves and determine where to drill wells. (Chinese. English and Chinese summaries)
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Huang, Ying[3] A nonlinear operator related to scaling functions and wavelets. (English summary) **97i:26003**
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Jiang, Qingtang (*with* Peng, Lizhong) Toeplitz type operators on wavelet subspaces. **97m:47027**
— Wavelet transform and orthogonal decomposition of L^2 space on the Cartan domain BDI $(q = 2)$. (English summary) **97h:22005**
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Lau, Ka-Sing (*with* Ma, Mang-Fai; Wang, Jianrong) On some sharp regularity estimations of L^2-scaling functions. (English summary) **97d:26001**
Leindler, László On the newly generalized absolute Cesàro summability of orthogonal series. **97g:40009**
— On equivalence of coefficient conditions with applications. (English summary) **97k:42014**
Lifshits, M. A. (*with* Weber, Michel Jean Georges) Régularisation spectrale en théorie ergodique et théorie des probabilités. (English and French summaries) [Spectral regularization in ergodic theory and probability] **97i:28011**
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Meyer, Yves Chirps n-dimensionnels et analyse 2-microlocale. [n-dimensional chirps and 2-microlocal analysis] **97b:26010**
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Plonka, Gerlind Approximation properties of multi-scaling functions: a Fourier approach. (English summary) **97d:42004**
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Rosier, Michael Biorthogonal decompositions of the Radon transform by multivariate interpolation. (English summary) **97c:41038**
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Struzik, Zbigniew R. Solving the two-dimensional inverse fractal problem with the wavelet transform. (English summary) **97i:28006**
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Zhang, Qing[3] Using the cardinal splines for the construction of a multiresolution approximation and wavelets. (English and Chinese summaries) **97c:41012**
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Zheng, Ji Ming *see* **Duan, Yu Rong; et al.**

42C20 Rearrangements and other transformations of Fourier and other orthogonal series

Bochkarev, S. V. Estimates for some character sums. (Russian) **97d:42033**
Galstyan, S. Sh. On bounded divergence in rearranged orthonormal systems. (Russian. English and Russian summaries) **97b:42063**

Items with secondary classifications in 42C20

Li, Shidong On general frame decompositions. (English summary) **97b:42055**

42C25 Uniqueness and localization for orthogonal series

Bokaev, N. A. On U-sets for multiplicative systems. (Russian) **97i:42021**

42C30 Completeness of sets of functions

Bilalov, B. T. On the basis property of the system $\{e^{i\pi nx}\sin nx\}_1^\infty$ and of a system of exponentials with shift. (Russian) **97e:42009**
Velts, B. E. Simple proofs of Olevskiĭ-type theorems. (Russian. Russian summary) **97k:42065**

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Chui, Charles K. (*with* Li, Chun[3]) Dyadic affine decompositions and functional wavelet transforms. (English summary) **97b:41032**
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Rusev, Petʺr K. Complete systems of Kummer and Weber-Hermite functions in spaces of holomorphic functions. (English summary) **97h:33010**
Seip, Kristian (*with* Ulanovskiĭ, A. M.) The Beurling-Malliavin density of a random sequence. (English summary) **97g:42003**
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42C99 None of the above, but in this section

Govil, N. K. (*with* Zalik, Richard A.) Perturbations of the Haar wavelet. (English summary) **97m:42025**
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43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–03 Historical (must also be assigned at least one classification number from Section 01)

(Domar, Yngve) *see* **Nikol'skiĭ, N. K., 97c:43001**
Nikol'skiĭ, N. K. Yngve Domar's forty years in harmonic analysis. **97c:43001**

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— Group representations and harmonic analysis. II. **97f:11002**
Lyons, Russell Seventy years of Rajchman measures. (English and French summaries) **97b:42019**

43A05 Measures on groups and semigroups, etc.

Beintema, Mark (*with* Budzban, Gregory) The structure of limit measures and their supports on topological semigroups. (English summary) **97c:43002**
Bisgaard, Torben Maack Method of moments on semigroups. (English summary) **97f:43001**
Budzban, Gregory *see* **Beintema, Mark, 97c:43002**
Chu, Cho-Ho *see* **Lau, Ka-Sing; et al., 97m:43001**
Jaworski, Wojciech (*with* Rosenblatt, Joseph Max; Willis, George) Concentration functions in locally compact groups. **97k:43001**
Kunita, Hiroshi Convolution semigroups of stable distributions over a nilpotent Lie group. (English summary) **97c:43003**
Lau, Ka-Sing (*with* Wang, Jianrong; Chu, Cho-Ho) Vector-valued Choquet-Deny theorem, renewal equation and self-similar measures. (English summary) **97m:43001**
Rosenblatt, Joseph Max *see* **Jaworski, Wojciech; et al., 97k:43001**
Wang, Jianrong *see* **Lau, Ka-Sing; et al., 97m:43001**
Willis, George *see* **Jaworski, Wojciech; et al., 97k:43001**

Items with secondary classifications in 43A05

Blei, Ron C. Projectively bounded Fréchet measures. **97a:28009**
Carcano, Giovanna Left and right on locally compact groups. (English summary) **97f:22008**
Coşkun, Erdal (*with* Heyer, Herbert) On the generating functional of a convolution semigroup on a Hilbert-Lie group. (English and French summaries) **97c:60016**
Dani, S. G. (*with* McCrudden, M.) Infinitely divisible probabilities on discrete linear groups. (English summary) **97e:60010**
Fan, Ai Hua On uniqueness of G-measures and g-measures. (English summary) **97j:28006**
Gallardo, Léonard (*with* Trimèche, Khélifa) Théorèmes local et de renouvellement pour une convolution généralisée sur la demi droite. (English and French summaries) [Local and renewal theorems for a generalized convolution on the half-line] **97g:60121**
Heyer, Herbert *see* **Coşkun, Erdal, 97c:60016**
Jaworski, Wojciech A Poisson formula for solvable Lie groups. (English summary) **97j:22019**
Kharazishvili, A. B. Some remarks on density points and the uniqueness property for invariant extensions of the Lebesgue measure. (English summary) **97b:28014**
— Small sets in uncountable abelian groups. (English and Polish summaries) **97f:28033**
— Some remarks on nonmeasurable almost invariant sets. (English and Polish summaries) **97f:28034**
McCrudden, M. *see* **Dani, S. G., 97e:60010**
Ratnakumar, P. K. (*with* Thangavelu, Sundaram) Analogues of Besicovitch-Wiener theorem for the Heisenberg group. (English summary) **97e:43005**
Shah, Riddhi Limits of commutative triangular systems on real and p-adic groups. **97e:60015**
Solecki, Sławomir On Haar null sets. (English summary) **97f:28035**
Thangavelu, Sundaram *see* **Ratnakumar, P. K., 97e:43005**
Trimèche, Khélifa *see* **Gallardo, Léonard, 97g:60121**

43A07 Means on groups, semigroups, etc.; amenable groups

Bekka, Mohammed El Bachir (*with* Cherix, Pierre-Alain; Valette, Alain) Proper affine isometric actions of amenable groups. **97e:43001**
Bisbas, A. (*with* Karanikas, C.; Moran, William) Tameness for the distribution of sums of Markov random variables. (English summary) **97k:43002**
Cherix, Pierre-Alain *see* **Bekka, Mohammed El Bachir; et al., 97e:43001**
Karanikas, C. *see* **Bisbas, A.; et al., 97k:43002**
Moran, William *see* **Bisbas, A.; et al., 97k:43002**
Sakai, Koukichi On inner amenable inverse semigroups. (English summary) **97c:43004**
— Historical survey on theory of amenable semigroups. (Japanese. Japanese summary)
Takahashi, Yuji Some counterexamples in amenability. **97k:43003**
Valette, Alain *see* **Bekka, Mohammed El Bachir; et al., 97e:43001**

Items with secondary classifications in 43A07

Bisch, Dietmar (*with* Haagerup, Uffe) Composition of subfactors: new examples of infinite depth subfactors. (English summary) **97e:46080**
Desquith, Etienne Opérateurs de translation et moyennabilité des groupes localement compacts et des espaces homogènes. (French summary) [Translation operators and amenability of locally compact groups and homogeneous spaces] **97e:43002**
Elek, Gábor The K-theory of Gromov's translation algebras and the amenability of discrete groups. (English summary) **97j:20034**
Granirer, Edmond E. On the set of topologically invariant means on an algebra of convolution operators on $L^p(G)$. (English summary) **97a:43004**
Haagerup, Uffe *see* **Bisch, Dietmar, 97e:46080**
Jolissaint, Paul Invariant states and a conditional fixed point property for affine actions. **97d:46080**

43A10 Measure algebras on groups, semigroups, etc.

Laali, J. (*with* Pym, J.) Concepts of Arens regularity for general measure algebras. **97m:43002**
Lau, Anthony To-Ming (*with* Mah, Peter F.; Ülger, Ali) Fixed point property and normal structure for Banach spaces associated to locally compact groups. (English summary) **97b:43001**
Mah, Peter F. *see* **Lau, Anthony To-Ming; et al., 97b:43001**
Pym, J. *see* **Laali, J., 97m:43002**
Rejali, A. Weighted function spaces on topological groups. (English summary) (*see* **97e:00007**)
Rösler, Margit Trigonometric convolution structures on **Z** derived from Jacobi polynomials. (English summary) **97m:43003**
Singh, Ajit Iqbal Completely positive hypergroup actions. (English summary) **97d:43001**
Ülger, Ali *see* **Lau, Anthony To-Ming; et al., 97b:43001**

Items with secondary classifications in 43A10

Connett, William C. (*with* Schwartz, Alan Lee) Subsets of **R** which support hypergroups with polynomial characters. (English summary) **97c:43011**
Gallardo, Léonard (*with* Trimèche, Khélifa) Théorèmes local et de renouvellement pour une convolution généralisée sur la demi droite. (English and French summaries) [Local and renewal theorems for a generalized convolution on the half-line] **97g:60121**
Hazod, Wilfried A generalization of E. Siebert's theorem on convergence of convolution semigroups and accompanying laws. (Russian summary) **97f:60009**
Kanjin, Yuichi (*with* Sato, Enji) Operating functions on multipliers for Jacobi and Laguerre expansions. **97c:42016**
Lazhari, M. N. (*with* Trimèche, Khélifa) Convolution algebras and factorization of measures on Chébli-Trimèche hypergroups. (English summary) **97f:43011**
Lyons, Russell Seventy years of Rajchman measures. (English and French summaries) **97b:42019**
Sato, Enji *see* **Kanjin, Yuichi, 97c:42016**
Schwartz, Alan Lee *see* **Connett, William C., 97c:43011**
Trimèche, Khélifa *see* **Lazhari, M. N., 97f:43011** *and* **Gallardo, Léonard, 97g:60121**
Voit, Michael Compact almost discrete hypergroups. (English summary) **97d:43008**

43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

Anzai, Kazuo (*with* Horie, Kenji; Koizumi, Sumiyuki) On the A. Beurling convolution algebra. **97f:43002**
Delaporte, Jacques (*with* Derighetti, Antoine) p-pseudomeasures and closed subgroups. (English summary) **97a:43001**
Derighetti, Antoine *see* **Delaporte, Jacques, 97a:43001**
Fan, Da Shan (*with* Xu, Zeng Fu) Characterization of Lipschitz spaces on compact Lie groups. (English summary) **97a:43002**
Fischer, Hans Rudolf (*with* Gürkanli, A. Turan; Liu, Teng-sun) On a family of Wiener type spaces. (English summary) **97a:43003**
— (*with* Gürkanli, A. Turan; Liu, Teng-sun) On a family of weighted spaces. (English summary) **97k:43004**
Granirer, Edmond E. On the set of topologically invariant means on an algebra of convolution operators on $L^p(G)$. (English summary) **97a:43004**
Gürkanli, A. Turan *see* **Fischer, Hans Rudolf; et al., 97a:43003; 97k:43004** *and* **Sağir, Birsen**
Horie, Kenji *see* **Anzai, Kazuo; et al., 97f:43002**
Kamaly, Amir A. Type-inequality problems in Fourier analysis. (English summary) **97c:43005**
Koizumi, Sumiyuki *see* **Anzai, Kazuo; et al., 97f:43002**
Liu, Teng-sun *see* **Fischer, Hans Rudolf; et al., 97a:43003** *and* **97k:43004**
Rothman, Jay Autocorrelation functions as translation invariants in L^1 and L^2. (English summary) **97a:43005**
Sağir, Birsen (*with* Gürkanli, A. Turan) The spaces $B_w^{p,q}(G)$ and some properties. (English and Turkish summaries)
Xu, Zeng Fu *see* **Fan, Da Shan, 97a:43002**

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Astengo, Francesca A class of L^p convolutors on harmonic extensions of H-type groups. (English summary) **97f:22014**
Borichev, A. A. Beurling algebras and the generalized Fourier transform. (English summary) **97k:46063**
Driver, Bruce K. On the Kakutani-Itô-Segal-Gross and Segal-Bargmann-Hall isomorphisms. (English summary) **97j:22020**
Kumahara, Keisaku On a function space related to the Hardy-Littlewood inequality for Riemannian symmetric spaces. (English summary) **97b:43012**
Lau, Anthony To-Ming (*with* Mah, Peter F.; Ülger, Ali) Fixed point property and normal structure for Banach spaces associated to locally compact groups. (English summary) **97b:43001**
Mah, Peter F. *see* **Lau, Anthony To-Ming; et al., 97b:43001**
Queffelec, Hervé (*with* Saffari, Bahman) On Bernstein's inequality and Kahane's ultraflat polynomials. (English summary) **97h:41027**
Saffari, Bahman *see* **Queffelec, Hervé, 97h:41027**
Takahashi, Yuji Some counterexamples in amenability. **97k:43003**
Ülger, Ali *see* **Lau, Anthony To-Ming; et al., 97b:43001**
Zheng, Wei Xing *see* **Zhou, Guangcai, 97f:43012**
Zhou, Guangcai (*with* Zheng, Wei Xing) Local Hardy spaces on Heisenberg group over local fields. (English summary) **97f:43012**

43A17 Analysis on ordered groups, H^p-theory

Asmar, Nakhlé H. (*with* Montgomery-Smith, Stephen J.) Hahn's embedding theorem for orders and harmonic analysis on groups with ordered duals. **97f:43003**
Grigoryan, Souren Arshakovich On a theorem of Sarason. (Russian. English and Russian summaries) **97c:43006**
Montgomery-Smith, Stephen J. *see* **Asmar, Nakhlé H., 97f:43003**

Items with secondary classifications in 43A17

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43A20 L^1-algebras on groups, semigroups, etc.

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43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

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Vasudeva, H. L. *see* **Singh, Ajit Iqbal, 97e:43003**
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43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

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43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

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Rosenberg, Jonathan *see* **Lipsman, Ronald L., 97d:22008**
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43A32 Other transforms and operators of Fourier type

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43A35 Positive definite functions on groups, semigroups, etc.

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Luo, Ding Ti (*with* Zhu, Ju Bo) Conditionally positive definite functions on $M(G)$. (Chinese. Chinese summary)
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43A40 Character groups and dual objects

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Volt, Michael Compact almost discrete hypergroups. (English summary) **97d:43008**

43A45 Spectral synthesis on groups, semigroups, etc.

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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

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Bukovský, Lev (*with* Kholshchevnikova, N. N.; Repický, Miroslav) Thin sets of harmonic analysis and infinite combinatorics. (English summary) **97b:43004**
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Finet, Catherine Stability by quotient of Haar invariant sets. (Italian summary) **97f:43007**
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Körner, T. W. Kahane's Helson curve. (English summary) **97f:43008**
Li, Daniel Complex unconditional metric approximation property for $\mathcal{C}_A(\mathbf{T})$ spaces. (English summary) **97k:43008**
Matheron, Étienne Sigma-idéaux polaires et ensembles d'unicité dans les groupes abéliens localement compacts. (English and French summaries) [Polar sigma-ideals and sets of uniqueness in locally compact abelian groups] **97f:43009**
— On the complexity of H sets of the unit circle. **97g:43002**
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Kholshchevnikova, N. N. Small cardinals in the theory of functions. (English summary) **97j:03100**
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Lyons, Russell Seventy years of Rajchman measures. (English and French summaries) **97b:42019**
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Ramsey, L. Thomas *see* **Harrison, Kenneth J., 97b:42018**

43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Liu, Jian Ming Weighted Plancherel formula for functions without compact supports. (English and Chinese summaries)

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Zheng, Shijun On Riesz type kernels over local fields. (English summary) **97b:43004**

43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

Ebrahimi-Vishki, H. R. (*with* Pourabdollah, M. A.) The universal nilpotent group compactification of a semigroup. (English summary) **97f:43002**
Kadets, M. I. On the connection between strong and scalar almost periodicity of Banach representations of the group of real numbers. (Russian)
Pourabdollah, M. A. Prelude to regularity of Arens type products arising from transformation semigroups. (English summary) (*see* **97e:00007**)
— *see also* **Ebrahimi-Vishki, H. R., 97f:43002**

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Schwartzman, Sol Bohr almost periodic maps into $K(\pi, 1)$ spaces. (English summary) **97d:58163**
Xu, Guangwu Herz-Schur multipliers and weakly almost periodic functions on locally compact groups. (English summary) **97h:43003**

43A62 Hypergroups

Bloom, Walter R. (*with* Ressel, Paul) Exponentially bounded positive-definite functions on a commutative hypergroup. (English summary) **97f:43010**
— (*with* Heyer, Herbert) Negative definite functions and convolution semigroups of probability measures on a commutative hypergroup. (English summary) **97g:43003**
Connett, William C. (*with* Schwartz, Alan Lee) Subsets of **R** which support hypergroups with polynomial characters. (English summary) **97c:43011**
Gallardo, Léonard Dérive des marches aléatoires et théorèmes limites. (English and French summaries) [Drift of random walks and limit theorems] **97h:43003**
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Trimèche, Khélifa *see* **Lazhari, M. N., 97f:43011**
Volt, Michael Compact almost discrete hypergroups. (English summary) **97d:43008**
— Compact groups having almost discrete orbit hypergroups. (English summary) **97k:43009**
Woess, Wolfgang *see* **Kaimanovich, Vadim A., 97j:43003**

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Heyer, Herbert *see* **Feng, Jian Feng, 97i:60030**
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Mili, Maher Asymptotic behaviour of the half disc polynomials and random walks on a discrete cone. (English summary) **97k:60023**
Singh, Ajit Iqbal Completely positive hypergroup actions. (English summary) **97d:43001**
Trimèche, Khélifa *see* **Gallardo, Léonard, 97g:60121**
Vaĭnerman, L. I. Gel'fand pair associated with the quantum group of motions of the plane and q-Bessel functions. (English summary) **97f:46117**
Voit, Michael Limit theorems for random walks on the double coset spaces $U(n)//U(n-1)$ for $n \to \infty$. (English summary) **97m:60009**
— Asymptotic distributions for the Ehrenfest urn and related random walks. (English summary) **97g:60014**
Zeuner, Hansmartin Limit theorems for polynomial hypergroups in several variables. (English summary) **97j:60017**
— Domains of attraction with inner norming on Sturm-Liouville hypergroups. (English summary) **97d:60022**

43A65 Representations of groups, semigroups, etc. [see also 22A10, 22A20, 22Dxx, 22E45]

Asmar, Nakhlé H. (*with* Kelly, Brian P.) Vector-valued transference and maximal ergodic theory in UMD-valued function spaces. (English summary) **97m:43005**
Grafakos, Loukas (*with* Weiss, Guido) Transference of multilinear operators. **97k:43010**
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Hilgert, Joachim (*with* Ólafsson, Gestur) ★ Causal symmetric spaces. (English summary) **97m:43006**
Kadets, M. I. On the connection between strong and scalar almost periodicity of Banach representations of the group of real numbers. (Russian)
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43A70 Analysis on specific locally compact abelian groups [see also 11R56, 22B05]

Kitada, Toshiyuki Potential operators and multipliers on locally compact Vilenkin groups. (English summary) **97k:43011**
Lang, W. Christopher Orthogonal wavelets on the Cantor dyadic group. (English summary) **97d:43010**
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43A75 Analysis on specific compact groups

Liu, Jian Ming *see* **Zheng, Shijun, 97k:43012**
Zheng, Shijun (*with* Liu, Jian Ming) A note on Riesz means over the ring of p-adic integers. (English and Chinese summaries) **97k:43012**

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Weisz, Ferenc (H_p, L_p)-type inequalities for the two-dimensional dyadic derivative. (English summary) **97k:42060**
Woodcock, C. F. A p-adic analog of Wirtinger's inequality. **97h:11148**
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43A80 Analysis on other specific Lie groups [see also 22Exx]

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Müller, Detlef (*with* Ricci, Fulvio) Solvability for a class of non-homogeneous differential operators on two-step nilpotent groups. **97a:43008**
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Robinson, Derek W. *see* **Batty, Charles J. K.; et al., 97f:35028**
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Schempp, Walter Phase coherent wavelets, Fourier transform, magnetic resonance imaging, and synchronized time-domain neural networks. (English summary) **97c:42057**
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Zhu, Fu-Liu Sur la transformation de Radon de $M_{2,n}(\mathbf{H})$. [Radon transform of $M_{2,n}(\mathbf{H})$] **97j:44006**
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43A85 Analysis on homogeneous spaces

Bray, William O. Generalized spectral projections on symmetric spaces of noncompact type: Paley-Wiener theorems. (English summary) **97b:43007**
Chadli, Mohammed Espace de Hardy associé à un espace symétrique de type Cayley. (English and French summaries) [Hardy space associated to a symmetric space of Cayley type] **97f:43013**
Chalykh, O. A. (*with* Veselov, A. P.) Integrability and Huygens' principle on symmetric spaces. (English summary) **97l:43005**
Choucroun, Francis M. Groupes d'automorphismes et frontières d'arbres: le cas homogène. (English and French summaries) [Automorphism groups and tree boundaries: the homogeneous case] (*see* **97l:60004**)
El Harchaoui, Mimoun Inversion de la transformation de Pompeiu locale dans les espaces hyperboliques réel et complexe: cas des deux boules. (English summary) [Inversion of the local Pompeiu transform in real and complex hyperbolic spaces: the case of two balls] **97e:43006**
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Kumahara, Keisaku On a function space related to the Hardy-Littlewood inequality for Riemannian symmetric spaces. (English summary) **97d:43012**
Liu, Jian Ming (*with* Zheng, Wei Xing) A complex weighted Plancherel formula and the Jacobi transform. (Chinese)
Lu, Qi-Keng Real horo-hypercircle coordinate. **97k:43014**
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Platonov, S. S. Invariant subspaces in some function spaces on symmetric spaces. I. (Russian. Russian summary) **97d:43013**
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Shimeno, Nobukazu Harmonic analysis on homogeneous vector bundles on hyperbolic spaces. **97b:43008**
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Hulanicki, Andrzej Estimates for the Poisson kernels and a Fatou type theorem. Applications to analysis on Siegel domains. (English summary) **97g:22005**
Lin, Chin-Cheng Convolution operators on Hardy spaces. (English summary) **97k:42045**
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Ol'shanskiĭ, G. I. Cauchy-Szegő kernels for Hardy spaces on simple Lie groups. (English and French summaries) **97k:22022**
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Schreiner, Michael On a new condition for strictly positive definite functions on spheres. (English summary) **97d:43005**
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43A90 Spherical functions [see also 22E45, 22E46, 33C65, 33D55]

Akkouchi, Mohamed Sur la transformation de Fourier sphérique associée à une mesure de Guelfand. (English and French summaries) [Spherical Fourier transform associated with a Gel'fand measure] **97m:43007**
Faraut, Jacques Fonctions sphériques sur un espace symétrique ordonné de type Cayley. (English summary) [Spherical functions on an ordered symmetric space of Cayley type] **97c:43012**
Sawyer, P. Spherical functions on symmetric cones. (English summary) **97k:43015**
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Arazy, J. (*with* Zhang, Gen Kai) Invariant mean value and harmonicity in Cartan and Siegel domains. (English summary) **97b:32047**
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Bray, William O. Generalized spectral projections on symmetric spaces of noncompact type: Paley-Wiener theorems. (English summary) **97b:43007**
Choucroun, Francis M. Groupes d'automorphismes et frontières d'arbres: le cas homogène. (English and French summaries) [Automorphism groups and tree boundaries: the homogeneous case] (*see* **97f:60004**)
Dooley, Anthony H. (*with* Zhang, Gen Kai) Generalized principal series representations of $SL(1+n, \mathbf{C})$. (English summary) **97j:22029**
Guivarc'h, Yves Compactifications of symmetric spaces and positive eigenfunctions of the Laplacian. **97j:31012**
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Liu, Jian Ming (*with* Zheng, Wei Xing) A complex weighted Plancherel formula and the Jacobi transform. (Chinese)
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Ólafsson, Gestur *see* **Branson, Thomas; et al., 97f:58128** *and* **Hilgert, Joachim, 97m:43006**
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43A99 Miscellaneous topics

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Skrzypczyk, Jerzy Accuracy analysis of statistical linearization methods applied to nonlinear dynamical systems. (English summary) **97k:45005**

44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10.}

44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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44A05 General transforms [see also 42A38]

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44A10 Laplace transform

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Ziemian, Bogdan Generalized analytic functions with applications to singular ordinary and partial differential equations. **97f:30066**

44A12 Radon transform [see also 92C55]

Aben, Hillar (*with* Puro, Alfred) Photoelastic tomography for three-dimensional flow birefringence studies. (English summary)

Agranovskiĭ, M. L. (*with* Quinto, Eric Todd) Injectivity of the spherical mean operator and related problems. **97m:44004**

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Berenstein, Carlos A. (*with* Walnut, David F.) Wavelets and local tomography. (English summary) **97b:44002**

Cnops, J. The Gegenbauer transformation and singular value decompositions for the Radon transformation. (English and Italian summaries) **97m:44005**

Denisyuk, A. S. On explicit formulae for inverting the X-ray transform. (English summary) **97f:44003**

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— *see also* **Ramm, Alexander G., 97g:44009**

Kazantsev, I. G. Inversion of some projection matrices. (English summary) **97j:44004**
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Mili, Maher (*with* Trimèche, Khélifa) Range of the generalized Radon transform associated with partial differential operators. (English summary) **97g:44007**
Mourou, M. A. (*with* Trimèche, Khélifa) Inversion of the Weyl integral transform and the Radon transform on $\mathbf{R}^n$ using generalized wavelets. (English summary) **97k:44004**
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Nessibi, M. M. (*with* Rachdi, L. T.; Trimèche, Khélifa) Ranges and inversion formulas for spherical mean operator and its dual. (English summary) **97a:44001**
Nosmas, Jean-Clarence Analyse microlocale et tomographie géométrique. (French summary) [Microlocal analysis and geometric tomography] (*see* **97i:94002**)
Palamodov, V. P. An inversion method for an attenuated x-ray transform. (English summary) **97j:44005**
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Ramm, Alexander G. (*with* Katsevich, Alexander I.) ★ The Radon transform and local tomography. **97g:44009**
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Takiguchi, Takashi On invertibility of the windowed Radon transform. (English summary) **97e:44005**
— *see also* **Kaneko, Akira, 97e:44002**
Tanabé, Susumu[1] On a reconstruction formula for ray transform after discrete incomplete data given on a line. (English summary) **97e:44006**
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Antyufeev, V. S. (*with* Bondarenko, A. N.) X-ray tomography in scattering media. (English summary)
Arguedas, Vernor (*with* Estrada, Ricardo) Extension sets for real analytic functions and applications to Radon transforms. (English summary) **97c:26029**
Berenstein, Carlos A. The Pompeiu problem, what's new? **97g:43007**
— (*with* Casadio Tarabusi, Enrico) Integral geometry in hyperbolic spaces and electrical impedance tomography. (English summary) **97d:53073**
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Bui Doan, Khanh (*with* Khanh, Chu Duc; Đặng Đình Áng) A numerical resolution of the exterior inverse radon transform problem. **97g:65268**
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Christ, Michael Failure of an endpoint estimate for integrals along curves. **97e:44007**
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Barrios, Dolores (*with* Tomeo, Venancio; Torrano, Emilio) The moment problem associated with the Cowen tridiagonal. (English summary) **97h:47007**
Golub, Gene H. Matrix computation and the theory of moments. (English summary) **97i:65073a**
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Kheifets, A. Yu. Hamburger moment problem: Parseval equality and A-singularity. (English summary) **97k:47014**
Nikol'skiĭ, M. S. On solvability of systems of integral equations in convolutions. (English summary) **97i:45003**
Njåstad, Olav Solutions of the strong Hamburger moment problem. (English summary) **97e:30064**
Pedersen, Henrik Laurberg Stieltjes moment problems and the Friedrichs extension of a positive definite operator. (English summary) **97a:47021**
Putinar, Mihai Extremal solutions of the two-dimensional L-problem of moments. (English summary) **97c:47018**
— A note on Tchakaloff's theorem. (English summary) **97j:65045**
Sakakibara, Nobuhisa Moment problems on $\mathbb{N}_0 \setminus \{1\}$. (English summary) **97d:22005**
Spruill, M. C. Determinacy of means of order statistics. (English summary) **97i:62011**
Tomeo, Venancio *see* **Barrios, Dolores; et al., 97h:47007**
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Valent, Galliano Exact solutions of some quadratic and quartic birth and death processes and related orthogonal polynomials. (English summary) **97c:60214**

44A99 Miscellaneous topics

Items with secondary classifications in 44A99

Asano, Tetsuo (*with* Katoh, Naoki) Variants for the Hough transform for line detection. (English summary) **97m:68203**
Atakishiev, N. M. A Ramanujan-type measure for the Al-Salam and Ismail biorthogonal rational functions. (English summary) **97k:33025**
Katoh, Naoki *see* **Asano, Tetsuo, 97m:68203**
Zhu, Tongjiang The similarity transformation of regularizing functionals and similarity property of their Fourier transformations. (English and Chinese summaries) **97e:46055**

45–XX Integral equations

45–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 45–01

Guenther, Ronald B. (*with* Lee, John W.) ★ Partial differential equations of mathematical physics and integral equations. (English summary) **97e:35001**
Lee, John W. *see* **Guenther, Ronald B., 97e:35001**

45–02 Research exposition (monographs, survey articles)

(Melnichenko, E.) *see* **Sakhnovich, Lev A., 97e:45001**
Sakhnovich, Lev A. ★ Integral equations with difference kernels on finite intervals. (English summary) **97e:45001**

45–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 45–03

Fichera, Gaetano Three battles lost by three great Italian mathematicians. (Italian) **97c:01028**
Khvedelidze, B. (*with* Manjavidze, G.) A survey of N. I. Muskhelishvili's scientific heritage. **97a:01054**
Manjavidze, G. *see* **Khvedelidze, B., 97a:01054**
Mikhailov, G. K. (*with* Radok, J. R. M.) On N. I. Muskhelishvili's place in the world of science and mathematics. (English summary) **97a:01055**
(Muskhelishvili, N. I.) *see* **Khvedelidze, B., 97a:01054** *and* **Mikhailov, G. K., 97a:01055**
Radok, J. R. M. *see* **Mikhailov, G. K., 97a:01055**

45–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 45–06

(Clarlini, P.) *see* **Advanced mathematical tools in metrology, 97i:65004**
(Cox, M. G.) *see* **Advanced mathematical tools in metrology, 97i:65004**
(Monaco, Roberto) *see* **Advanced mathematical tools in metrology, 97i:65004**
(Pavese, F.) *see* **Advanced mathematical tools in metrology, 97i:65004**

Items listed otherwise than by author

Advanced mathematical tools in metrology ★ Advanced mathematical tools in metrology. **97i:65004**
Torino ★ Advanced mathematical tools in metrology. **97i:65004**
Workshop:
Advanced Mathematical Tools in Metrology ★ Advanced mathematical tools in metrology. **97i:65004**

45A05 Linear integral equations

Fukui, Yoshihiko *see* **Horiguchi, Tsuyoshi, 97i:45001**
Horiguchi, Tsuyoshi (*with* Fukui, Yoshihiko) A variation of the Jentzsch theorem for a symmetric integral kernel and its application. (English summary) **97i:45001**

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Kincanon, Eric Ambiguities and almost reflectionless potentials. (English summary) **97k:34133**
Lazarev, K. P. *see* **Borovskikh, A. V.; et al., 97m:34041**
Markvard, M. (*with* Pedas, A.) On a possibility of solving weakly singular integral equations. (Russian. Russian summary) **97j:45005**
Pedas, A. *see* **Markvard, M., 97j:45005**
Pokornyĭ, Yu. V. *see* **Borovskikh, A. V.; et al., 97m:34041**

45B05 Fredholm integral equations

Abdou, M. A. Fredholm integral equation of the second kind with potential kernel. (English summary) **97c:45001**
Chirikjian, Gregory S. Fredholm integral equations on the Euclidean motion group. (English summary) **97j:45001**
Estrada, Ricardo Dirichlet convolution inverses and solution of integral equations. (English summary) **97j:45002**
Feneyrol-Perrin, Yvette Discrete Fredholm's equations. **97h:45001**
Gabbasov, N. S. Some variants of the subdomain method for integral equations of the first kind. (Russian)
Jiang, Tianzi The average case complexity of the Fredholm equation of second kind with free term in $H^r(\Gamma)$. **97d:45001**
Liu, Yi Jun On the Fredholm integral equation of the first kind and Ascoli-Arzela theorem of fuzzy set-valued function. (English summary) **97a:45001**
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Shubin, Carol Ann Singular perturbations of integral equations with degenerate kernels. (English summary) **97d:45002**
Solodkiĭ, S. G. Complexity of Fredholm equations of the second kind with kernels belonging to anisotropic classes of differentiable functions. (Russian. English and Ukrainian summaries) **97k:45001**
Totov, Georgi On the problem of the solution in closed form of a class of integral equations. (Bulgarian. English, Russian and Bulgarian summaries)

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Azizov, M. *see* **Pereverzev, S. V., 97g:45013**
Cade, R. On discontinuous solutions of the integral equations of electrostatics. (English summary) **97a:78018**
Dwivedi, A. P. (*with* Pandey, Sarita) A certain class of five equations involving series of Jacobi and Laguerre polynomials. (English summary)
Figueiras-Vidal, A. R. *see* **Sánchez-Ávila, C., 97g:65282**
Kazakov, A. Ya. (*with* Slavyanov, S. Yu.) Integral equations for special functions of Heun class. (English summary) **97j:34031**
Kohr-Ile, Mirela Some existence result for a Stokes flow between two arbitrarily closed curves. (English summary) **97m:76038**
Lin, E. B. (*with* Shen, Xiaoping) Approximation methods for eigenvalue problems of Fredholm integral equations. (English summary) **97b:65149**
Mandal, B. N. *see* **Mandal, Nanigopal, 97a:45007**
Mandal, Nanigopal (*with* Mandal, B. N.) On some dual integral equations involving Legendre and associated Legendre functions. (English summary) **97a:45007**
Neruballo, B. V. (*with* Smirnov, L. G.) On a class of integral equations of the axisymmetric theory of elasticity for a composite space with cracks in the interface plane. (Russian. Russian summary) **97d:73008**
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Pereverzev, S. V. (*with* Azizov, M.) On optimal methods for specifying information in the solution of integral equations with analytic kernels. (Russian. English and Ukrainian summaries) **97g:45013**
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Sheremeta, M. N. On the eigenvalues of the Fredholm operator. (Ukrainian. English and Ukrainian summaries) **97d:47061**
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45C05 Eigenvalue problems [see also 34Lxx, 35Pxx, 45P05, 47A75]

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Dubrovskiĭ, Vladimir Vasil'evich Justification of a method for computing the eigenvalues of integral operators by means of trace theory. (Russian. Russian summary) **97k:65289**

45D05 Volterra integral equations [see also 34A12]

Abd El Rahman, R. O. *see* **Abdou, M. A., (97j:00027)**
Abdou, M. A. (*with* Abd El Rahman, R. O.) Spectral relationship for the system of integral equations of the first kind. (English summary) (*see* **97j:00027**)
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Aizicovici, Sergiu (*with* Barbu, Viorel) Periodic solutions for a second order semilinear Volterra equation. **97b:45001**
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Deng, Keng *see* **Olmstead, W. E.; et al., 97b:45002**
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Hessein, M. I. M. (*with* Abou El-Seoud, A. A. M.) Degenerate kernel method for nonlinear Volterra integral equation of the second kind in the space L_p $(p \geq 1)$. (English and Arabic summaries) **97c:45002**
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Mydlarczyk, Wojciech The existence of solutions to a Volterra integral equation. (English summary) **97d:45003**
Nikol'skiĭ, M. S. On solvability of systems of integral equations in convolutions. (English summary) **97i:45003**
Oka, Hirokazu Second order linear Volterra integrodifferential equations. (English summary) **97d:45004**
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Vidossich, Giovanni Solving the Hönig generic problem about Volterra integral equations. (English summary) **97k:45004**
Vityuk, A. N. Averaging in multivalued Volterra integral equations. (Russian. English and Ukrainian summaries) **97d:45006**
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Yang, Shan Song (*with* Zhang, Zong Da) Construction and application of V-functionals for linear Volterra systems. (Chinese. English and Chinese summaries) **97b:45003**
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Bojeldain, A. A. Existence and uniqueness theorems for a class of nonlinear Volterra integro-differential equations. (English summary) **97m:45011**
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Chang, Jung-Chan (*with* Shaw, Sen-Yen) Rates of approximation and ergodic limits of resolvent families. **97b:47039**
Ding, Xie Ping (*with* Wang, Fan) Solutions for a system of nonlinear random integral and differential equations. (Chinese. English and Chinese summaries)
Ding, Yimin *see* **Aizicovici, Sergiu; et al., 97f:34010**
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Gilding, B. H. The correspondence between travelling-wave solutions of a nonlinear reaction-convection-diffusion equation and an integral equation. (English summary) **97c:35093**
Gorenflo, Rudolf *see* **Vũ Kim Tuấn, 97e:45014**
Guidotti, Patrick (*with* Hieber, Matthias) An integral equation arising in the study of above threshold photo-detachment. **97g:45003**
Hackenbroch, Wolfgang Product integration for bounded operator measures. **97i:47081**
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Hoppensteadt, F. (*with* Salehi, Habib; Skorokhod, A. V.) Randomly perturbed Volterra integral equations and some applications. (English summary) **97m:60095**
Hu, Shi Geng Functional integral equations and integral inequalities with infinite delay. (Chinese. English and Chinese summaries) **97c:34132**
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Kilbas, A. A. Solution of the nonlinear Abel-Volterra integral equation. (Russian. English and Russian summaries) **97c:45007**
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Nagel, Rainer (*with* Sinestrari, Eugenio) Nonlinear hyperbolic Volterra integrodifferential equations. **97c:45010**
Nguyen Minh Chuong (*with* Nguyen Van Tuan) Spline collocation methods for a system of nonlinear Fredholm-Volterra integral equations. (English summary) **97i:45010**
Nguyen Van Tuan *see* **Nguyen Minh Chuong, 97i:45010**
Oka, Hirokazu Abstract quasilinear Volterra integrodifferential equations. **97k:45007**
O'Regan, Donal Existence principles for nonlinear operator equations. (English summary) **97a:47110**
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Popiołek, Jan Properties of some integrals related to partial differential equations of order higher than two. (English summary) **97m:35037**
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Subrahmanyam, P. V. (*with* Sudarsanam, S. K.) A note on fuzzy Volterra integral equations. (English summary) **97d:45013**
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Talpalaru, Pavel Asymptotic behavior and growth properties of integro-differential equations. **97e:45011**
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Vũ Kim Tuấn (*with* Gorenflo, Rudolf) Asymptotics of singular values of Volterra integral operators. (English summary) **97e:45014**
Wang, Fan *see* **Ding, Xie Ping**
Yanaghiya, A. On some nonlinear Volterra equations with nonconvolution kernel. **97j:45010**
Zarubin, A. N. On a method for solving a form of integral equations of the first kind. (Russian. Russian summary)
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45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

45E05 Integral equations with kernels of Cauchy type [see also 35J15]

Israilov, M. I. Approximate-analytic solution of a characteristic singular integro-differential equation. (Russian. Russian summary) **97m:45003**
Sheshko, M. A. An approximate solution of singular integral equations with a Cauchy kernel on the real axis. (Russian. English and Russian summaries) **97m:45004**
Sznitko, Wanda On a system of singular equations in $\mathbf{R}^3$ with iteration of integral operator. **97c:45004**
Zheng, Shen Zhou The theory of Noether solvability of systems of singular integral equations with shifts and complex conjugate values. (Chinese. English and Chinese summaries) **97m:45005**

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Banerjea, Sudeshna Scattering of water waves by a vertical wall with gaps. (English summary) **97c:76010**
Böttcher, Albrecht (*with* Karlovich, Yu. I.) Toeplitz and singular integral operators on general Carleson Jordan curves. (English summary) **97k:47024**
— (*with* Grudskiĭ, S. M.) Toeplitz operators with discontinuous symbols: phenomena beyond piecewise continuity. (English summary) **97k:47025**
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Chakrabarti, Aloknath (*with* Sahoo, T.) Solution of singular integral equations with logarithmic and Cauchy kernels. (English summary) **97m:45006**
Cialdea, Alberto Singular integral equations and differential forms. (*see* **97k:73003**)
Cuminato, Jose A. Numerical solution of Cauchy-type integral equations of index -1 by collocation methods. (English summary) **97m:45016**
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Matveev, A. F. The Cauchy problem for a random singular integro-differential equation. (Russian. Russian summary) **97j:45008**
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Rakowski, Marek (*with* Spitkovsky, Ilya M.) On normal solvability of the Riemann problem with singular coefficient. (English summary) **97e:47026**
Ramírez de Arellano, Enrique (*with* Vasilevskiĭ, N. L.) Algebras of singular integral operators generated by three orthogonal projections. (English summary) **97d:47060**
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Wendland, Wolfgang L. *see* **Efendiev, M. A., 97h:30057**
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45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

Amini, S. (*with* Maines, N. D.) Regularization of strongly singular integrals in boundary integral equations. (English summary)

Baturev, A. A. (*with* Kravchenko, V. G.; Litvinchuk, G. S.) Approximate methods for singular integral equations with a non-Carleman shift. (English summary) **97d:45008**

Burenkov, V. I. (*with* Pankratov, A. S.) Estimates of regularized solutions of convolution-type equations in the spaces of functions with derivatives of fractional orders. (English summary) **97j:45004**

Chakrabarti, Aloknath (*with* Sahoo, T.) Solution of singular integral equations with logarithmic and Cauchy kernels. (English summary) **97m:45006**

Dubatovskaya, M. V. On the solvability of an inhomogeneous characteristic singular integral equation with an infinite index in the exceptional case. (Russian) (*see* **97g:00017**)

Dushkin, V. D. Hypersingular integral equations of two-dimensional diffraction problems on periodic structures. (*see* **97g:00017**)

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Gavrilyako, O. V. Singular integral equations for the problem of diffraction by a bounded lattice located on an impedance plane. (Russian) (*see* **97g:00017**)

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Karelin, A. A. Singular integral equations containing operators with point singularities on end points of the contour. (Russian) (*see* **97g:00017**)

Korzan, L. A. (*with* Zverovich, È. I.) Solution in explicit form of a convolution-type equation with a special kernel and right-hand side. (Russian) (*see* **97g:00017**)

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Ladopoulos, E. G. (*with* Zisis, V. A.) Non-linear singular integral approximations in Banach spaces. **97a:45006**

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45Lxx Approximation of solutions

45L05 Theoretical approximation of solutions

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Bucur, Constantin M. Considérations sur une équation aux différences. (English summary) [Considerations about a difference equation]
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Khritonenko, N. V. (*with* Yatsenko, Yu. P.) Integral-functional equations for optimal renovation problems. (English summary) **97g:45011**
de Klerk, J. H. Strongly singular integral equations solved by L_1-techniques. (English summary) **97j:45013**
Kozlov, Valeriĭ Pavlovich (*with* Yurchuk, N. I.; Abdel'razak, N. A.) An operational method for solving dual integral equations of nonstationary type. (Russian) (*see* **97g:00017**)
Mandal, B. N. *see* **Mandal, Nanigopal; et al.**
Mandal, Nanigopal (*with* Chakrabarti, Aloknath; Mandal, B. N.) Solution of a system of generalized Abel integral equations using fractional calculus. (English summary)
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Yurchuk, N. I. *see* **Kozlov, Valeriĭ Pavlovich; et al., (97g:00017)**
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Abdou, M. A. (*with* Abd El Rahman, R. O.) Spectral relationship for the system of integral equations of the first kind. (English summary) (*see* **97j:00027**)
Abou El-Seoud, A. A. M. *see* **Hessein, M. I. M., 97c:45002**
Amini, S. (*with* Maines, N. D.) Regularization of strongly singular integrals in boundary integral equations. (English summary)
Argyros, Ioannis K. *see* **Chen, Dong[1], 97j:65093**
Baturev, A. A. (*with* Kravchenko, V. G.; Litvinchuk, G. S.) Approximate methods for singular integral equations with a non-Carleman shift. (English summary) **97d:45008**
Brunner, Hermann On the discretization of differential and Volterra integral equations with variable delay. (English summary) **97j:65199**
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— Acceleration of convergence for Galerkin method solutions to Fredholm integrodifferential equations. (Chinese. English and Chinese summaries)

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— The complexity of the Fredholm equation of the second kind with free term in $W_1^r([0,1])$. (English summary) **97m:65241**

Junghanns, Peter (*with* Luther, Uwe) Cauchy singular integral equations in spaces of continuous functions and methods for their numerical solution. (English summary) **97m:65242**

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Saleh, M. H. (*with* Nagdy, A. S.) Newton-Kantorovich method for one class of nonlinear singular integral equation with non-zero indices. (English and Arabic summaries) **97e:65153**

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45Mxx Qualitative behavior

45M05 Asymptotics

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Talpalaru, Pavel Asymptotic behavior and growth properties of integro-differential equations. **97e:45011**

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Xu, Dao Yi Asymptotic behavior of Volterra integrodifferential equations.

Zaghrout, A. A. S. (*with* Attalah, S. H.) On asymptotic behaviour of neutral integrodifferential equations. (English summary) **97b:45007**

45M10 Stability theory

Akça, Haydar (*with* Berezanskiĭ, L. M.; Braverman, E. Ya.) On linear integro-differential equations with integral impulsive conditions. (English summary) **97g:45015**
Berezanskiĭ, L. M. *see* **Akça, Haydar; et al., 97g:45015**
Braverman, E. Ya. *see* **Akça, Haydar; et al., 97g:45015**
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Constantin, Adrian Some existence results for nonlinear integral equations. (English summary) **97a:45008**
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Gil′, M. I. *see* **Drozdov, A. D., 97i:34100**
King, R. R. *see* **Ahlip, R. A., 97b:45005**
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Shen, Jian Hua Some results on asymptotic stability of impulsive integro-differential equations. (Chinese. Chinese summary) **97m:34154**
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Yang, Shan Song (*with* Zhang, Zong Da) Construction and application of V-functionals for linear Volterra systems. (Chinese. English and Chinese summaries) **97b:45003**
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45M15 Periodic solutions

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Arino, Ovide *see* **Alt Dads, E.; et al., 97e:45012**
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— An integral equation of advanced and retarded type. (English summary) **97b:45012**
Chen, Sheng[3] (*with* Torrejón, R.) Bifurcation of almost periodic solutions for a nonlinear integral equation with delay. **97f:45010**
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Fečkan, Michal Nonnegative solutions of nonlinear integral equations. (English summary) **97a:45014**
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Furumochi, Tetsuo *see* **Burton, T. A., 97g:45001**
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Jin, Zhi Ming[2] *see* **An, Wei, 97m:45010**
Liu, Xinzhi *see* **Guo, Da Jun, 97j:45007**

45M99 None of the above, but in this section

Alt Dads, E. (*with* Ezzinbi, Khalil) Almost periodic solution for some neutral nonlinear integral equation. **97k:45009**
Ezzinbi, Khalil *see* **Alt Dads, E., 97k:45009**

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Li, Guang Hua[2] (*with* Yu, Yuan Hong) Oscillation of solutions to systems of nonlinear integro-differential equations. (Chinese. English and Chinese summaries) **97m:45012**
Yu, Yuan Hong *see* **Li, Guang Hua[2], 97m:45012**

45N05 Abstract integral equations, integral equations in abstract spaces

Erbe, L. H. (*with* Guo, Da Jun) Method of upper and lower solutions for nonlinear integrodifferential equations of mixed type in Banach spaces. (English summary) **97a:45016**
Ezzinbi, Khalil (*with* Hachimi, M. A.) Existence of positive almost periodic solutions of functional equations via Hilbert's projective metric. **97b:45013**
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Khritonenko, N. V. (*with* Yatsenko, Yu. P.) Integral-functional equations for optimal renovation problems. (English summary) **97g:45011**
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Liu, Kangsheng (*with* Liu, Zhuangyi) On the type of C_0-semigroup associated with the abstract linear viscoelastic system. (English summary) **97j:47059**
Liu, Zhuangyi *see* **Liu, Kangsheng, 97j:47059**
Maz'ya, Vladimir (*with* Solov′ëv, A. A.) Boundary integral equations of the logarithmic potential theory for domains with peaks. (English and Italian summaries) **97h:31001**
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45P05 Integral operators [see also 47B38, 47G10]

Anastassiou, George A. Differentiated shift-invariant multivariate integral operators. (English summary) **97a:45018**
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Karapetyants, N. K. Local estimates, Lebesgue points, and fractional integrals. (Russian) (*see* **97g:00017**)
Kravchenko, V. G. *see* **Batyrev, A. A.; et al., 97f:45011**
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Bardaro, Carlo (*with* Mantellini, Ilaria) A modular convergence theorem for general nonlinear integral operators. (English summary) **97m:47101**
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— *see also* **Singular integral operators and related topics, 97d:47002**
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Jawerth, Björn (*with* Mitrea, Marius) Acoustic scattering, Galerkin estimates and Clifford algebras. **97k:35037**
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Tel Aviv ★ Singular integral operators and related topics. **97d:47002**
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Linear One-dimensional Singular Integral Equations ★ Singular integral operators and related topics. **97d:47002**

46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}

46–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 46–00

Index:
Studia Math. Index of Volumes 111–120.

46–01 Instructional exposition (textbooks, tutorial papers, etc.)

Berezanskiĭ, Yu. M. (*with* Sheftel′, Z. G.; Us, G. F.) ★ Functional analysis. Vol. I. **97i:46001a**
— (*with* Sheftel′, Z. G.; Us, G. F.) ★ Functional analysis. Vol. II. **97i:46001b**
Kutateladze, S. S. ★ Fundamentals of functional analysis. (English summary) **97a:46001**
Limaye, Balmohan V. ★ Functional analysis. (English summary) **97k:46001**
(Malyshev, P. V.) *see* **Berezanskiĭ, Yu. M.; et al., 97i:46001a** *and* **97i:46001b**
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(Airault, Hélène) *see* **Malliavin, Paul, 97f:28001a**
Albrecht, David (*with* Duong, Xuan Thinh; McIntosh, Alan) Operator theory and harmonic analysis. **97e:47001**
Avanissian, Vazgain ★ Initiation à l'analyse fonctionnelle. (French) [Introduction to functional analysis] **97d:00001**
Davidson, Kenneth R. ★ C^*-algebras by example. (English summary) **97i:46095**
Demkowicz, Leszek F. *see* **Oden, J. Tinsley, 97h:00001**
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Howes, Norman R. ★ Modern analysis and topology. (English summary) **97i:54002**
(Kay, Leslie) *see* **Malliavin, Paul, 97f:28001a** *and* **Letac, Gérard, 97f:28001b**
(Kontarev, G.) *see* **Lebedev, V. I., 97i:00001**
Lebedev, V. I. ★ An introduction to functional analysis in computational mathematics. (English summary) **97i:00001**
Letac, Gérard ★ Exercises and solutions manual for *Integration and probability* [Springer, New York, 1995] by Paul Malliavin. **97f:28001b**
— *see also* **Malliavin, Paul, 97f:28001a**
Malliavin, Paul ★ Integration and probability. **97f:28001a**
— *see also* **Letac, Gérard, 97f:28001b**
Mawhin, Jean L. ★ Analyse. (French. French summary) [Analysis] **97k:00001**
McIntosh, Alan *see* **Albrecht, David; et al., 97e:47001**
Oden, J. Tinsley (*with* Demkowicz, Leszek F.) ★ Applied functional analysis. (English summary) **97h:00001**
(Pinsky, Mark A.) *see* **Malliavin, Paul, 97f:28001a**
Willem, Michel ★ Analyse harmonique réelle. (French. French summary) [Real harmonic analysis] **97a:42001**

46–02 Research exposition (monographs, survey articles)

Bukhvalov, A. V. (*with* Gutman, A. E.; Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Vector lattices and integral operators. (English summary) **97a:46002**
Ferrando, J. C. (*with* López Pellicer, M.; Sánchez Ruiz, L. M.) ★ Metrizable barrelled spaces. (English summary) **97d:46001**
Gutman, A. E. *see* **Bukhvalov, A. V.; et al., 97a:46002**
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Kusraev, A. G. *see* **Bukhvalov, A. V.; et al., 97a:46002**
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(Stepanov, V. D.) *see* **Bukhvalov, A. V.; et al., 97a:46002**

Items with secondary classifications in 46–02

Amrein, Werner O. (*with* Boutet de Monvel-Berthier, Anne-Marie; Georgescu, Vladimir) ★ C_0-groups, commutator methods and spectral theory of N-body Hamiltonians. **97h:47001**
Boutet de Monvel-Berthier, Anne-Marie *see* **Amrein, Werner O.; et al., 97h:47001**
Georgescu, Vladimir *see* **Amrein, Werner O.; et al., 97h:47001**
Gowers, W. T. Recent results in the theory of infinite-dimensional Banach spaces. **97h:46022**
Rockafellar, R. Tyrrell ★ Convex analysis. (English summary) **97m:49001**

46–03 Historical (must also be assigned at least one classification number from Section 01)

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Banach, Stefan ★ Théorie des opérations linéaires. (French) [Theory of linear operators] **97d:01035**
(Pták, Vlastimil) *see* **Vavřín, Zdeněk, 97i:01043**
Sakai, Koukichi Historical survey on theory of amenable semigroups. (Japanese. Japanese summary)
Schreiber, Peter The Cauchy-Bunyakovsky-Schwarz inequality. **97i:01022**
Vavřín, Zdeněk Seventy years of Professor Vlastimil Pták: biography and interview. **97i:01043**

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46–06 Proceedings, conferences, collections, etc.

(Aytuna, A.) *see* **Linear topological spaces and complex analysis, 97d:46002**
(Dierolf, Susanne) *see* **Functional analysis, 97f:46001**
(Dineen, Seán) *see* **Functional analysis, 97f:46001**
(Ding, Xia Xi) *see* **Theory of Ba spaces and its applications, 97f:46003**
(Domański, Paweł) *see* **Functional analysis, 97f:46001**
(Fillmore, Peter A.) *see* **Operator algebras and their applications, 97f:46002**
(He, Yuzan) *see* **Theory of Ba spaces and its applications, 97f:46003**
(Luo, Peizhu) *see* **Theory of Ba spaces and its applications, 97f:46003**
(Mingo, James A.) *see* **Operator algebras and their applications, 97f:46002**
(Voiculescu, Dan-Virgil) *see* **Free probability theory, 97g:46002**

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Ankara ★ Linear topological spaces and complex analysis. **97d:46002**
Bimodules in operator algebras ★ Sayōso kan ni okeru ryōsoku kagun ni tsuite. (Japanese) [Bimodules in operator algebras] **97b:46001**
Cocycle conjugacy problems for shifts on the hyperfinite II_1 factor ★ Chōyūgen II_1 kei inshi ue no shifuto no gaibu kyōyaku mondai. (Japanese) [Cocycle conjugacy problems for shifts on the hyperfinite II_1 factor] **97g:46001**
Free probability theory ★ Free probability theory. **97g:46002**
Functional analysis ★ Functional analysis. **97f:46001**
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Cocycle Conjugacy Problems for Shifts on the Hyperfinite II_1 Factor ★ Chōyūgen II_1 kei inshi ue no shifuto no gaibu kyōyaku mondai. (Japanese) [Cocycle conjugacy problems for shifts on the hyperfinite II_1 factor] **97g:46001**
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— ★ Free probability theory. **97g:46002**
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Functional Analysis ★ Functional analysis. **97f:46001**
Random Matrices and Operator Algebra Free Products ★ Free probability theory. **97g:46002**

Items with secondary classifications in 46–06

(Demuth, Michael) *see* **Differential equations, asymptotic analysis, and mathematical physics, 97m:00024**
(Domínguez Benavides, Tomás) *see* **Recent advances on metric fixed point theory, 97i:47003**
(Gheondea, Aurelian) *see* **Topics in operator theory, operator algebras and applications, 97f:47001**
(Goldstein, Jerome A.) *see* **Stochastic processes and functional analysis, 97i:00019**
(Gretsky, Neil E.) *see* **Stochastic processes and functional analysis, 97i:00019**
(Kunita, Hiroshi) *see* **Stochastic analysis on infinite-dimensional spaces, 97d:60004**
(Kuo, Hui-Hsiung) *see* **Stochastic analysis on infinite-dimensional spaces, 97d:60004**
(Mshimba, Ali Self) *see* **Functional analytic methods in complex analysis and applications to partial differential equations, 97d:00020**
(Rao, Malempati Madhusudana) *see* **Stochastic processes and functional analysis, 97i:00019**
(Schulze, Bert-Wolfgang) *see* **Differential equations, asymptotic analysis, and mathematical physics, 97m:00024**
(Strătilă, Ş.) *see* **Topics in operator theory, operator algebras and applications, 97f:47001**
(Timotin, Dan) *see* **Topics in operator theory, operator algebras and applications, 97f:47001**
(Tutschke, Wolfgang) *see* **Functional analytic methods in complex analysis and applications to partial differential equations, 97d:00020**
(Uhl, J. J., Jr.) *see* **Stochastic processes and functional analysis, 97i:00019**

Items listed otherwise than by author

Baton Rouge, LA ★ Stochastic analysis on infinite-dimensional spaces. **97d:60004**
Conference:
Modern Analysis and Probability ★ Stochastic processes and functional analysis. **97i:00019**
Operator Theory ★ Topics in operator theory, operator algebras and applications. **97f:47001**
Partial Differential Equations ★ Differential equations, asymptotic analysis, and mathematical physics. **97m:00024**

Differential equations, asymptotic analysis, and mathematical physics ★ Differential equations, asymptotic analysis, and mathematical physics. **97m:00024**
Functional analytic methods in complex analysis and applications to partial differential equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Generalized functions and differential equations ★ Chōkansū to bibun hōteishiki. (Japanese) [Generalized functions and differential equations] **97c:00041**
Potsdam ★ Differential equations, asymptotic analysis, and mathematical physics. **97m:00024**
Recent advances on metric fixed point theory ★ Recent advances on metric fixed point theory. **97i:47003**
Riverside, CA ★ Stochastic processes and functional analysis. **97i:00019**
Seminar:
Stochastic Analysis on Infinite-dimensional Spaces ★ Stochastic analysis on infinite-dimensional spaces. **97d:60004**
Seville ★ Recent advances on metric fixed point theory. **97i:47003**
Stochastic analysis on infinite-dimensional spaces ★ Stochastic analysis on infinite-dimensional spaces. **97d:60004**
Stochastic processes and functional analysis ★ Stochastic processes and functional analysis. **97i:00019**
Structure of spaces of analytic and harmonic functions and the theory of operators on them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
Symposium:
Generalized Functions and Differential Equations ★ Chōkansū to bibun hōteishiki. (Japanese) [Generalized functions and differential equations] **97c:00041**
Structure of Spaces of Analytic and Harmonic Functions and the Theory of Operators on Them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
Timişoara ★ Topics in operator theory, operator algebras and applications. **97f:47001**
Topics in operator theory, operator algebras and applications ★ Topics in operator theory, operator algebras and applications. **97f:47001**
Trieste ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Workshop:
Functional Analytic Methods in Complex Analysis and Applications to Partial Differential Equations ★ Functional analytic methods in complex analysis and applications to partial differential equations. **97d:00020**
Metric Fixed Point Theory ★ Recent advances on metric fixed point theory. **97i:47003**

Items with secondary classifications in 46–06

Sharma, S. K. *see* **Singh, J.**, (**97j:00027**)
Singh, J. (*with* Sharma, S. K.) Some new results on the tensor product of locally convex spaces. (English summary) (*see* **97j:00027**)

46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

Items with secondary classifications in 46Axx

Ferrando, J. C. (*with* López Pellicer, M.; Sánchez Ruiz, L. M.) ★ Metrizable barrelled spaces. (English summary) **97d:46001**
López Pellicer, M. *see* **Ferrando, J. C.; et al.**, **97d:46001**
Sánchez Ruiz, L. M. *see* **Ferrando, J. C.; et al.**, **97d:46001**

46A03 General theory of locally convex spaces

Ferrando, J. C. *see* **Saxon, Stephen A.**, **97c:46001**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Quasidistinguished countable enlargements of normed spaces. **97c:46001**
Śliwa, Wiesław (*with* Wójtowicz, Marek) Separable quotients of locally convex spaces. (English summary) **97g:46003**
Wójtowicz, Marek *see* **Śliwa, Wiesław**, **97g:46003**

Items with secondary classifications in 46A03

Ambrożko, Edward On certain multimodular pseudotopologies generated by locally convex topologies. (English summary) **97b:46015**
Bahya, Ahmed Ould Résultats sur des cônes séquentiellement complètement réguliers. (English and French summaries) [Results on sequentially fully regular cones] **97m:46011**
Beatty, T. A. (*with* Schaefer, Helmut H.) Semi-bornological spaces. **97b:46003**
Beloyiannis, A. *see* **Katsaras, A. K.**, **97m:46118**
Cao, Ding Hua (*with* Zhu, Qi Ding) The relations among relatively weakly compact sets, relatively weakly sequentially compact sets, and relatively weakly countably compact sets in certain locally convex spaces. (Chinese. English and Chinese summaries) **97d:46006**
Chiani, Antonia Some remarks on a theorem on sets with connected sections. (English summary) **97e:47096**
Kąkol, Jerzy The Mackey-Arens and Hahn-Banach theorems for spaces over valued fields. (English summary) **97c:46094**
— (*with* Perez-Garcia, Cristina; Schikhof, W. H.) Cardinality and Mackey topologies of non-Archimedean Banach and Fréchet spaces. (English summary) **97i:46137**
Katsaras, A. K. (*with* Beloyiannis, A.) On the topology of compactoid convergence in non-Archimedean spaces. (English summary) **97m:46118**
Perez-Garcia, Cristina *see* **Kąkol, Jerzy; et al.**, **97i:46137**
Sánchez Ruiz, L. M. *see* **Saxon, Stephen A.**, **97g:46004**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Dual local completeness. (English summary) **97g:46004**
Schaefer, Helmut H. *see* **Beatty, T. A.**, **97b:46003**
Schikhof, W. H. *see* **Kąkol, Jerzy; et al.**, **97i:46137**
Sequeira, Fernando Manuel Les espaces $\mathscr{F}(\Omega)$ et le calcul symbolique de Sebastião e Silva. (French summary) [The spaces $\mathscr{F}(\Omega)$ and the operational calculus of Sebastião e Silva] **97a:46048**
Zhu, Qi Ding *see* **Cao, Ding Hua**, **97d:46006**

46A04 Locally convex Fréchet spaces and (DF)-spaces

Cakmak, Zeynel Some three-space property for quojections. (English summary) **97b:46002**
Chalov, P. A. (*with* Dzhakov, Plamen B.; Terzioğlu, T.; Zakharyuta, V. P.) On Cartesian products of locally convex spaces. (English summary) **97i:46002**
Deheri, G. M. Some properties of DF-dF-spaces. **97c:46002**
Díaz Alcaide, Juan Carlos (*with* Dierolf, Susanne; Domański, Paweł; Fernández, Carmen) On the three-space problem for dual Fréchet spaces. (English summary) **97f:46004**
— Primariness of some universal Fréchet spaces. (English summary) **97i:46004**
Dierolf, Susanne *see* **Díaz Alcaide, Juan Carlos; et al.**, **97f:46004**
Domański, Paweł (*with* Lindström, Mikael) Grothendieck spaces and duals of injective tensor products. (English summary) **97m:46001**
— *see also* **Díaz Alcaide, Juan Carlos; et al.**, **97f:46004**
Dzhakov, Plamen B. (*with* Yurdakul, Murat; Zakharyuta, V. P.) On Cartesian products of Köthe spaces. (English summary) **97i:46003**
— *see also* **Chalov, P. A.; et al.**, **97i:46002**
Fernández, Carmen *see* **Díaz Alcaide, Juan Carlos; et al.**, **97f:46004**
Lindström, Mikael *see* **Domański, Paweł**, **97m:46001**
Poppenberg, Markus Properties $(\mathrm{DN}_{(\varphi,\psi)})$ and $(\Omega_{(\varphi,\psi)})$ for Fréchet spaces. **97c:46003**
— A smoothing property for Fréchet spaces. (English summary) **97m:46002**
Sharma, S. K. *see* **Singh, J.**
Singh, J. (*with* Sharma, S. K.) Some new results on the tensor product of locally convex spaces. (English summary)
Terzioğlu, T. *see* **Chalov, P. A.; et al.**, **97i:46002**
Yurdakul, Murat *see* **Dzhakov, Plamen B.; et al.**, **97i:46003**
Zakharyuta, V. P. *see* **Chalov, P. A.; et al.**, **97i:46002** *and* **Dzhakov, Plamen B.; et al.**, **97i:46003**

Items with secondary classifications in 46A04

Albanese, Angela A. Primary products of Banach spaces. **97b:46029**
— (*with* Metafune, Giorgio; Moscatelli, V. B.) Representations of the spaces $C^m(\Omega) \cap H^{k,p}(\Omega)$. **97e:46037**
Bierstedt, Klaus D. The ε-(tensor) product of a (DFS)-space with arbitrary Banach spaces. (English summary) **97m:46010**
Bonet, José (*with* Ramanujan, M. S.) Two classes of operators between Fréchet spaces. (English summary) **97j:47003**
Burke, Maxim R. (*with* Todorčević, Stevo) Bounded sets in topological vector spaces. **97i:46005**
Deheri, G. M. Infrabarrelled dB-spaces are finite-dimensional. **97e:46001**
Díaz Alcaide, Juan Carlos On 2-homogeneous polynomials on some non-stable Banach and Fréchet spaces. (English summary) **97k:46049**
— (*with* Dierolf, Susanne) On duals of weakly acyclic (LF)-spaces. (English summary) **97m:46003**
Dierolf, Susanne *see* **Mangino, Elisabetta; et al.**, **97k:46003** *and* **Díaz Alcaide, Juan Carlos**, **97m:46003**
Dzhakov, Plamen B. (*with* Yurdakul, Murat; Zakharyuta, V. P.) Isomorphic classification of Cartesian products of power series spaces. **97f:46011**
— (*with* Zakharyuta, V. P.) On Dragilev type power Köthe spaces. (English summary) **97i:46009**
Florencio, Miguel (*with* Mayoral, Fernando; Paúl, Pedro J.) (DF)-spaces of vector-valued integrable functions. **97c:46043**
Frerick, Leonhard A splitting theorem for nuclear Fréchet spaces. (English summary) **97k:46002**
— (*with* Wengenroth, Jochen) A sufficient condition for vanishing of the derived projective limit functor. (English summary) **97g:46095**
— *see also* **Mangino, Elisabetta; et al.**, **97k:46003**
Goncharov, A. P. A compact set without Markov's property but with an extension operator for C^∞-functions. (English summary) **97h:46032**
Kocatepe, Mefharet (*with* Zakharyuta, V. P.) Köthe spaces modeled on spaces of C^∞ functions. (English summary) **97i:46010**
Lê Mậu Hai (*with* Nguyễn Văn Khuê) Holomorphic and meromorphic maps on (DFC)-spaces. (English summary) **97k:46050**
Mangino, Elisabetta (*with* Frerick, Leonhard; Wengenroth, Jochen; Dierolf, Susanne) Strong regularity conditions for some classes of (LF)-spaces. (English summary) **97k:46003**
Mayoral, Fernando *see* **Florencio, Miguel; et al.**, **97c:46043**
Metafune, Giorgio *see* **Albanese, Angela A.; et al.**, **97e:46037**
Moscatelli, V. B. *see* **Albanese, Angela A.; et al.**, **97e:46037**
Nguyễn Văn Khuê *see* **Lê Mậu Hai**, **97k:46050**
Paúl, Pedro J. *see* **Florencio, Miguel; et al.**, **97c:46043**
Peris, A. (*with* Rivera Ortún, María José) Localization of bounded sets in tensor products. (English summary) **97k:46006**
Poppenberg, Markus An inverse function theorem for Fréchet spaces admitting generalized smoothing operators. **97f:58013**
Qiu, Jing Hui Retakh's conditions and regularity properties of (LF)-spaces. **97f:46006**
Ramanujan, M. S. *see* **Bonet, José**, **97j:47003**
Ricker, Werner J. Existence of Bade functionals for complete Boolean algebras of projections in Fréchet spaces. (English summary) **97j:47050**
Rivera Ortún, María José *see* **Peris, A.**, **97k:46006**
Todorčević, Stevo *see* **Burke, Maxim R.**, **97i:46005**
Washihara, Masako (*with* Yasugi, Mariko) Computability and metrics in a Fréchet space. (English summary) **97d:03060**

Wengenroth, Jochen *see* **Frerick, Leonhard, 97g:46095** *and* **Mangino, Elisabetta; et al., 97k:46003**
Yasugi, Mariko *see* **Washihara, Masako, 97d:03060**
Yurdakul, Murat *see* **Dzhakov, Plamen B.; et al., 97f:46011**
Zakharyuta, V. P. *see* **Dzhakov, Plamen B.; et al., 97f:46011**; **97i:46009** *and* **Kocatepe, Mefharet, 97i:46010**

46A08 Barrelled spaces, bornological spaces

Beatty, T. A. (*with* Schaefer, Helmut H.) Semi-bornological spaces. **97b:46003**
Breckner, Wolfgang W. (*with* Göpfert, Alfred; Trif, Tiberiu) Characterizations of ultrabarrelledness and barrelledness involving the singularities of families of convex mappings. (English summary) **97f:46005**
Göpfert, Alfred *see* **Breckner, Wolfgang W.; et al., 97f:46005**
Krassowska, Dorota Remarks on Baire-type properties in tensor products. (English summary) **97b:46004**
Schaefer, Helmut H. *see* **Beatty, T. A., 97b:46003**
Trif, Tiberiu *see* **Breckner, Wolfgang W.; et al., 97f:46005**

Items with secondary classifications in 46A08

De Pauw, Thierry Topologies for the space of BV-integrable functions in $\mathbf{R}^N$. (English summary) **97m:46030**
Drewnowski, Lech (*with* Florencio, Miguel; Paúl, Pedro J.) Some new classes of rings of sets with the Nikodym property. (English summary) **97m:28002**
Florencio, Miguel *see* **Drewnowski, Lech; et al., 97m:28002**
Kąkol, Jerzy (*with* Sánchez Ruiz, L. M.) A note on the Baire and ultrabornological property of spaces $C_p(X, E)$. **97m:46056**
Paúl, Pedro J. *see* **Drewnowski, Lech; et al., 97m:28002**
Read, John A bornological approach to rotundity and smoothness applied to approximation. (English summary) **97k:46048**
Sánchez Ruiz, L. M. *see* **Kąkol, Jerzy, 97m:46056**
Saxon, Stephen A. Non-barrelled dense $\beta\varphi$ subspaces. (English summary) **97b:46011**
Stavrakas, Nick Norm averaging and Krasnoselsky's lemma. (English summary) **97h:46004**
Stuart, Christopher E. Dense barrelled subspace of Banach spaces. (English summary) **97g:46005**
Szmuksta-Zawadzka, Maria The closed graph theorem in topological algebras. (English summary) **97h:46005**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

Deheri, G. M. λ-bases and $\hat{\lambda}(P_0, \varphi)$-nuclearity. (English summary) **97c:46004**
— Infrabarrelled dB-spaces are finite-dimensional. **97e:46001**
Frerick, Leonhard A splitting theorem for nuclear Fréchet spaces. (English summary) **97k:46002**
Vogt, Dietmar Kernels of power series matrices. **97d:46003**

Items with secondary classifications in 46A11

Bierstedt, Klaus D. The ε-(tensor) product of a (DFS)-space with arbitrary Banach spaces. (English summary) **97m:46010**
Chalov, P. A. (*with* Zakharyuta, V. P.) On quasidiagonal isomorphisms of generalized power spaces. (English summary) **97h:46009**
Deheri, G. M. On the characterization of $\Lambda(P)$-nuclear locally convex vector lattice. (English summary) **97k:46007**
Domański, Paweł (*with* Lindström, Mikael) Grothendieck spaces and duals of injective tensor products. (English summary) **97m:46001**
Goncharov, A. P. (*with* Terzioğlu, T.; Zakharyuta, V. P.) On isomorphic classification of tensor products $E_\infty(a)\hat{\otimes}E'_\infty(b)$. (English summary) **97h:46010**
Lee, Dong-Myung A characterization of λ-nuclearity.
Lindström, Mikael *see* **Domański, Paweł, 97m:46001**
Mishra, Shiva Kumar (*with* Prasad, Bhikhari) Equality of ε-tensor product and π-tensor product of two T.V.S. (English summary) **97i:46129**
Prasad, Bhikhari *see* **Mishra, Shiva Kumar, 97i:46129**
Terzioğlu, T. *see* **Goncharov, A. P.; et al., 97h:46010**
Zakharyuta, V. P. *see* **Chalov, P. A., 97h:46009** *and* **Goncharov, A. P.; et al., 97h:46010**

46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

Bosch, Carlos (*with* Gilsdorf, Thomas E.) Strictly barrelled disks in inductive limits of quasi-(LB)-spaces. (English summary) **97e:46002**
Díaz Alcaide, Juan Carlos (*with* Dierolf, Susanne) On duals of weakly acyclic (LF)-spaces. (English summary) **97m:46003**
Dierolf, Susanne (*with* Müller, Stephan) Some remarks on weak acyclicity. **97h:46001**
— (*with* Frerick, Leonhard; Mangino, Elisabetta; Wengenroth, Jochen) Examples on projective spectra of (LB)-spaces. (English summary) **97b:46005**
— *see also* **Mangino, Elisabetta; et al., 97k:46003** *and* **Díaz Alcaide, Juan Carlos, 97m:46003**
Frerick, Leonhard (*with* Wengenroth, Jochen) Weakly acyclic (LF)-spaces. (English summary) **97m:46004**
— *see also* **Dierolf, Susanne; et al., 97b:46005** *and* **Mangino, Elisabetta; et al., 97k:46003**
Gilsdorf, Thomas E. *see* **Bosch, Carlos, 97e:46002**
Kąkol, Jerzy Strongly Lindelöf spaces, Baire-type property and sequential closure conditions for inductive limits of metrizable spaces. (English summary) **97m:46005**
Mangino, Elisabetta (*with* Frerick, Leonhard; Wengenroth, Jochen; Dierolf, Susanne) Strong regularity conditions for some classes of (LF)-spaces. (English summary) **97k:46003**
— *see also* **Dierolf, Susanne; et al., 97b:46005**
Müller, Stephan *see* **Dierolf, Susanne, 97h:46001**
Ostrovskiĭ, M. I. Quojections without Banach subspaces. (English summary) **97h:46002**
Qiu, Jing Hui Retakh's conditions and regularity properties of (LF)-spaces. **97f:46006**
— Weakly compact sets in inductive limits. (English and Chinese summaries) **97f:46007**
Wengenroth, Jochen Acyclic inductive spectra of Fréchet spaces. (English summary) **97m:46006**
— *see also* **Dierolf, Susanne; et al., 97b:46005**; **Mangino, Elisabetta; et al., 97k:46003** *and* **Frerick, Leonhard, 97m:46004**

Items with secondary classifications in 46A13

Akkar, Mohamed (*with* Nacir, C.) Unicité de structure d'algèbres limites inductives localement convexes de suites de Q-algèbres de Fréchet. (Italian summary) [Uniqueness of the locally convex inductive limit algebra structure of sequences of Fréchet Q-algebras] **97f:46067**
Bierstedt, Klaus D. The ε-(tensor) product of a (DFS)-space with arbitrary Banach spaces. (English summary) **97m:46010**
Gilsdorf, Thomas E. A note on locally complete spaces. (Spanish. English and Spanish summaries) **97m:46009**
Korobeĭnik, Yu. F. On the countable definability of sets. (Russian. Russian summary) **97i:46040**
Nacir, C. *see* **Akkar, Mohamed, 97f:46067**

46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Burke, Maxim R. (*with* Todorčević, Stevo) Bounded sets in topological vector spaces. **97i:46005**
Chen, Yong[1] The topological structure of non-Hausdorff linear topological spaces. (Chinese. English and Chinese summaries) **97e:46003**
Cho, Min-Hyung *see* **Li, Ronglu, 97c:46006**
Ding, Guanggui (*with* Huang, Sen-Zhong) On extension of isometries in (F)-spaces. (English summary) **97e:46004**
Huang, Sen-Zhong *see* **Ding, Guanggui, 97e:46004**
Kalton, Nigel J. (*with* Peck, N. T.) A remark on a problem of Klee. **97e:46005**
Li, Ronglu (*with* Cho, Min-Hyung) An improvement of Stiles' Orlicz-Pettis theorem. **97c:46006**
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Items with secondary classifications in 46A16

Aksoy, A. G. (*with* Lewicki, Grzegorz) Modular spaces and K-widths. (English summary) **97i:46016**
Bayoumi, Aboubakr On the new version of the Hahn-Banach theorem. (English summary) **97e:46005**
— Mean value theorem for real locally bounded spaces. (English summary) **97h:46067**
Breckner, Wolfgang W. (*with* Göpfert, Alfred; Trif, Tiberiu) Characterizations of ultrabarrelledness and barrelledness involving the singularities of families of convex mappings. (English summary) **97f:46005**
Göpfert, Alfred *see* **Breckner, Wolfgang W.; et al., 97f:46005**
Kalton, Nigel J. The existence of primitives for continuous functions in a quasi-Banach space. (English summary) **97h:46071**
Lewicki, Grzegorz *see* **Aksoy, A. G., 97i:46016**
Runst, Thomas Singularities in quasi-Banach spaces with applications to semilinear elliptic equations. I. (English summary) **97f:46119**
Tran Van An Weak LC-admissibility and its application. (English summary) **97c:47068**
Trif, Tiberiu *see* **Breckner, Wolfgang W.; et al., 97f:46005**

46A17 Bornologies and related structures; Mackey convergence, etc.

Li, Ronglu (*with* Swartz, Charles) Characterizations of Banach-Mackey spaces. (English summary) **97f:46008**
Swartz, Charles *see* **Li, Ronglu, 97f:46008**

Items with secondary classifications in 46A17

Sánchez Ruiz, L. M. *see* **Saxon, Stephen A., 97c:46001**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Quasidistinguished countable enlargements of normed spaces. **97c:46001**

46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Chandra, Prabhat (*with* Singh, Lal Babu) On a particular type of set in a linear space. (English summary) **97k:46004**
de Deus Marques, João ★ A representation theorem in vectorially normed spaces. (English summary) **97b:46006**
Künzi, Hans-Peter A. Structures uniformes et espaces totalement convexes. [Uniform structures and totally convex spaces] **97h:46006**
Pochciał, Jan Remarks on convergence linear spaces. (English and Italian summaries) **97m:46007**
Singh, Lal Babu *see* **Chandra, Prabhat, 97k:46004**
Zagorodnyuk, A. V. Continuity and boundedness of polynomial operators in linear pseudonormed spaces. (Ukrainian. English summary) **97m:46008**

Items with secondary classifications in 46A19

Ambrożko, Edward Countably modulared spaces and some multimodular spaces. (English summary) **97b:46014**

— On certain multimodular pseudotopologies generated by locally convex topologies. (English summary) **97b:46015**
Bayoumi, Aboubakr On the new version of the Hahn-Banach theorem. (English summary) **97e:46005**
Chen, Yong[1] The topological structure of non-Hausdorff linear topological spaces. (Chinese. English and Chinese summaries) **97e:46003**

46A20 Duality theory

Items with secondary classifications in 46A20

Beattie, Ronald Continuous convergence and functional analysis. (English summary) **97c:46092**
Sánchez Ruiz, L. M. *see* **Saxon, Stephen A., 97c:46001**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Quasidistinguished countable enlargements of normed spaces. **97c:46001**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Bayoumi, Aboubakr On the new version of the Hahn-Banach theorem. (English summary) **97e:46005**
Cao, Bing Yuan A further study of separation theorems for extendable convex sets. (Chinese. English and Chinese summaries) **97f:46009**
Meng, Zhi Qing An effective Hahn-Banach theorem. (Chinese)

Items with secondary classifications in 46A22

Cui, Xiu Xin The space M_k^L and its applications. (Chinese. English and Chinese summaries) **97a:46027**
Ding, Guanggui (*with* Huang, Sen-Zhong) On extension of isometries in (F)-spaces. (English summary) **97e:46004**
Gajek, Lesław (*with* Jachymski, Jacek R.; Zagrodny, Dariusz) Projections, extendability of operators and the Gateaux derivative of the norm. (English summary) **97h:46021**
Huang, Sen-Zhong *see* **Ding, Guanggui, 97e:46004**
Jachymski, Jacek R. *see* **Gajek, Lesław; et al., 97h:46021**
Wong, Kam-Chau Computability of minimizers and separating hyperplanes. (English summary) **97k:03056**
Zagrodny, Dariusz *see* **Gajek, Lesław; et al., 97h:46021**
Zhang, Xue Dong The geometrical character of Helly's theorem. (Chinese. English and Chinese summaries) **97b:46022**

46A25 Reflexivity and semi-reflexivity [see also 46B10]

Stavrakas, Nick Reflexivity and visibility. (English summary) **97h:46003**
— Norm averaging and Krasnoselsky's lemma. (English summary) **97h:46004**

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Díaz Alcaide, Juan Carlos (*with* Dierolf, Susanne) On duals of weakly acyclic (LF)-spaces. (English summary) **97m:46003**
Dierolf, Susanne *see* **Díaz Alcaide, Juan Carlos, 97m:46003**
Gilsdorf, Thomas E. A note on locally complete spaces. (Spanish. English and Spanish summaries) **97m:46009**
Miñarro, M. Angeles On weighted James' spaces. (English summary) **97c:46022**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Gilsdorf, Thomas E. A note on locally complete spaces. (Spanish. English and Spanish summaries) **97m:46009**
Sánchez Ruiz, L. M. *see* **Saxon, Stephen A., 97g:46004**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Dual local completeness. (English summary) **97g:46004**
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Bosch, Carlos (*with* Gilsdorf, Thomas E.) Strictly barrelled disks in inductive limits of quasi-(LB)-spaces. (English summary) **97e:46002**
Chou, Chin Ch'êng (*with* Huang, Liren; Ng, Kung Fu) On closed graph and implicit function theorems for multifunctions. (English summary) **97h:58017**
Gilsdorf, Thomas E. *see* **Bosch, Carlos, 97e:46002**
Huang, Liren *see* **Chou, Chin Ch'êng; et al., 97h:58017**
Ng, Kung Fu *see* **Chou, Chin Ch'êng; et al., 97h:58017**
Qiu, Jing Hui Weakly compact sets in inductive limits. (English and Chinese summaries) **97f:46007**
Ursescu, Corneliu Inherited openness. (English summary) **97f:47050**
Vinagre, Cybele T. M. Webbed Locally K-convex spaces. (English summary) **97h:46128**
Welsh, Stewart C. Open mappings and solvability of nonlinear equations in Banach space. (English summary) **97h:47061**
Zhang, Xue Dong The geometrical character of Helly's theorem. (Chinese. English and Chinese summaries) **97b:46022**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47D15, 47D50]

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Bonet, José (*with* Domański, Paweł; Lindström, Mikael; Ramanujan, M. S.) Operator spaces containing c_0 or l_∞. (English summary) **97b:46007**
Bu, Qing Ying (*with* Fu, Yong Qiang) A theorem of Orlicz-Pettis type for compact operators. (Chinese. Chinese summary) **97b:46008**
Domański, Paweł *see* **Bonet, José; et al., 97b:46007**
Fu, Yong Qiang *see* **Bu, Qing Ying, 97b:46008**
Lindström, Mikael *see* **Bonet, José; et al., 97b:46007**
López Molina, Juan A. (*with* Rivera Ortún, María José) Bounded, compact and Montel maps on projective tensor products of Köthe spaces. (English summary) **97k:46005**
— (*with* Rivera Ortún, María José) Bounded, Montel and compact operators on vector valued Köthe spaces. (English summary) **97b:46009**
Peris, A. (*with* Rivera Ortún, María José) Localization of bounded sets in tensor products. (English summary) **97k:46006**
Ramanujan, M. S. *see* **Bonet, José; et al., 97b:46007**
Rivera Ortún, María José *see* **López Molina, Juan A., 97b:46009; 97k:46005** *and* **Peris, A., 97k:46006**

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Arkhangel'skiĭ, A. V. Spaces of mappings and rings of continuous functions. (*see* **97f:54001**)
Dăneț, Nicolae On the notion of ideal in a directed vector space. (English summary) **97e:46006**
Dierolf, Susanne *see* **Mangino, Elisabetta; et al., 97k:46003**
Domański, Paweł (*with* Lindström, Mikael) Grothendieck spaces and duals of injective tensor products. (English summary) **97m:46001**
Frerick, Leonhard *see* **Mangino, Elisabetta; et al., 97k:46003**
Li, Ronglu (*with* Swartz, Charles) Characterizations of Banach-Mackey spaces. (English summary) **97f:46008**
Lindström, Mikael *see* **Domański, Paweł, 97m:46001**
Mangino, Elisabetta (*with* Frerick, Leonhard; Wengenroth, Jochen; Dierolf, Susanne) Strong regularity conditions for some classes of (LF)-spaces. (English summary) **97k:46003**
Mishra, Shiva Kumar (*with* Prasad, Bhikhari) Equality of ε-tensor product and π-tensor product of two T.V.S. (English summary) **97i:46129**
Pisier, Gilles Exact operator spaces. **97a:46023**
Prasad, Bhikhari *see* **Mishra, Shiva Kumar, 97i:46129**
Sharma, S. K. *see* **Singh, J.**
Singh, J. (*with* Sharma, S. K.) Some new results on the tensor product of locally convex spaces. (English summary)
Swartz, Charles *see* **Li, Ronglu, 97f:46008**
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46A35 Summability and bases [see also 46B15]

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Arizmendi Peimbert, Hugo (*with* Carrillo, A.) On other bases in locally convex algebras with cyclic bases. (English summary) **97m:46083**
Cao, Wen Chun Some properties of fully Cauchy compact convex spaces, fully compact convex spaces, and fully convex spaces. (Chinese. English and Chinese summaries) **97c:46019**
Carrillo, A. *see* **Arizmendi Peimbert, Hugo, 97m:46083**
Chalov, P. A. (*with* Zakharyuta, V. P.) On quasidiagonal isomorphisms of generalized power spaces. (English summary) **97h:46009**
Cho, Min-Hyung *see* **Swartz, Charles; et al., 97j:47034**
Deheri, G. M. Some properties of DF-dF-spaces. **97c:46002**
El-Helaly, Sherif Locally semiconvex F-algebras with unconditional orthogonal bases. (English summary) **97m:46077**
Juneja, O. P. (*with* Sinha, Amritasu) Proper bases, continuous linear functionals, continuous linear transformations and simultaneous automorphisms in a complete linear metric space. (English summary) **97f:46037**
Li, Ronglu *see* **Swartz, Charles; et al., 97j:47034**
Miñarro, M. Angeles On weighted James' spaces. (English summary) **97c:46022**
Render, Hermann Topological algebras with an orthogonal total sequence. (English summary) **97m:46085**
Sinha, Amritasu *see* **Juneja, O. P., 97f:46037**
Swartz, Charles (*with* Cho, Min-Hyung; Li, Ronglu) A nice property of operators defined on c_0. **97j:47034**
Zakharyuta, V. P. *see* **Chalov, P. A., 97h:46009**

46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

Abramovich, Yuri A. (*with* Aliprantis, C. D.; Polyrakis, I. A.) Lattice-subspaces and positive projections. (English summary) **97b:46010**
Aliprantis, C. D. *see* **Abramovich, Yuri A.; et al., 97b:46010**
Alpay, Şafak (*with* Turan, Bahri) On f-modules. (English summary) **97h:46006**
Bahya, Ahmed Ould Résultats sur des cônes séquentiellement complètement réguliers. (English and French summaries) [Results on sequentially fully regular cones] **97m:46011**
Dăneț, Nicolae On the notion of ideal in a directed vector space. (English summary) **97e:46006**
Deheri, G. M. On the characterization of $\Lambda(P)$-nuclear locally convex vector lattice. (English summary) **97k:46007**
Emel'yanov, Èduard Yu. Infinitesimal analysis and vector lattices. (English summary) **97c:46007**
Gutman, A. E. Locally one-dimensional K-spaces and σ-distributive Boolean algebras. (English summary) **97c:46008**
Jakubík, Ján On sequences in vector lattices. (English summary) **97i:46007**
Lavrič, Boris ★ Delno urejeni vektorski prostori. (Slovenian. English and Slovenian summaries) [Partially ordered vector spaces] **97c:46009**

Leont'eva, T. F. (*with* Mosyagin, V. V.) F-seminormed spaces with a cone. (Russian. Russian summary) (*see* **97m:00019**)
Mosyagin, V. V. *see* **Leont'eva, T. F.**, (**97m:00019**)
Németh, A. B. The axiom of Archimedes, hemispaces, hypercones and ε-efficiency. (English summary) (*see* **97i:00007**)
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Wong, Yau-chuen Embedding properties of locally convex Riesz spaces. **97i:46008**
Wu, Cong Xin (*with* Wu, Li Zhong) W-type Riesz spaces. (Chinese. English and Chinese summaries) **97f:46010**
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Berdikulov, M. A. (*with* Odilov, S. T.) Generalized spin factors. (Russian. English and Uzbek summaries) **97i:46106**
Boccuto, Antonio Continuous invariant vector-valued means and applications. **97c:28023**
— Vitali-Hahn-Saks and Nikodym theorems for means with values in Riesz spaces. **97f:28030**
Bukhvalov, A. V. (*with* Gutman, A. E.; Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Vector lattices and integral operators. (English summary) **97a:46002**
Dimiev, Stancho *see* **Koshi, S.; et al., 97k:46019**
Gutman, A. E. Banach bundles in the theory of lattice-normed spaces. IV. Disjointness preserving operators. (English summary) **97i:46130**
— *see also* **Bukhvalov, A. V.; et al., 97a:46002**
Huijsmans, C. B. (*with* Luxemburg, W. A. J.) On some aspects of the theory of lattice-ordered algebras. **97b:06015**
Korotkov, V. B. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Koshi, S. (*with* Dimiev, Stancho; Lazov, R.) Partially ordered normed linear spaces with weak Fatou property. (English summary) **97k:46019**
Kusraev, A. G. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Kutateladze, S. S. *see* **Bukhvalov, A. V.; et al., 97a:46002**
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Păltineanu, Gavril (*with* Vuza, Dan Tudor) Interpolating ideals in locally convex lattices. (English summary) **97f:46088**
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(Stepanov, V. D.) *see* **Bukhvalov, A. V.; et al., 97a:46002**
Vuza, Dan Tudor *see* **Păltineanu, Gavril, 97f:46088**
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46A45 Sequence spaces (including Köthe sequence spaces) [see also 46B45]

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Boos, Johann (*with* Fleming, Daniel J.; Leiger, Toivo) Sequence spaces with oscillating properties. (English summary) **97c:46010**
Bu, Qing Ying (*with* Li, Yan Jie) The vector-valued sequence space $\Lambda[X]$ and its Köthe dual. IV. Hereditary properties. (Chinese. English and Chinese summaries) **97f:46016**
— Vector-valued sequence space $BMC(X)$ and its properties. (English summary) **97d:46004**
— *see also* **Wu, Cong Xin, 97f:46015**
Chalov, P. A. (*with* Zakharyuta, V. P.) On quasidiagonal isomorphisms of generalized power spaces. (English summary) **97b:46009**
Dzhakov, Plamen B. (*with* Yurdakul, Murat; Zakharyuta, V. P.) Isomorphic classification of Cartesian products of power series spaces. **97f:46011**
— (*with* Zakharyuta, V. P.) On Dragilev type power Köthe spaces. (English summary) **97i:46009**
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Fleming, Daniel J. (*with* Magee, J. C.) FK-multiplier spaces. (English summary) **97i:46011**
— *see also* **Boos, Johann; et al., 97c:46010**
Florencio, Miguel (*with* Paúl, Pedro J.; Virués, J. M.) On the Mikusiński-Antosik diagonal theorem. (English summary) **97f:46012**
Ganguly, Ashok (*with* Bhatnagar, S. C.) On some new paranormed sequence spaces. (English summary)
Goncharov, A. P. (*with* Terzioğlu, T.; Zakharyuta, V. P.) On isomorphic classification of tensor products $E_{\infty}(a)\hat{\otimes}E'_{\infty}(b)$. (English summary) **97h:46010**
Kashirin, V. (*with* Vakulenko, A. V.) Relations between classes of Dragilev spaces $(f_1)_{\sigma}$ and $(f_2)_{\sigma}$ for arbitrary function $f_1^{-1}\circ f_2$. (English and Turkish summaries) **97f:46013**
Kocatepe, Mefharet (*with* Zakharyuta, V. P.) Köthe spaces modeled on spaces of C^{∞} functions. (English summary) **97i:46010**
Kondakov, V. P. On operators and complemented subspaces in Köthe spaces defined by sparse matrices. (Russian. Russian summary) **97a:46004**
Lee, Dong-Myung A characterization of λ-nuclearity.
Leibowitz, G. M. Remarks on the article: "Norm inequalities which yield inclusions for Euler sequence spaces" [Comput. Math. Appl. **30** (1995), no. 3-6, 383–387; MR 96f:46008] by R. N. Mohapatra, F. L. Salzmann III and D. L. Ross. (English summary) **97c:46011**
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Malkowsky, Eberhard The continuous duals of the spaces $c_0(\Lambda)$ and $c(\Lambda)$ for exponentially bounded sequences Λ. (English summary) **97d:46005**
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Natarajan, P. N. On a generalized product of certain sequences. (English summary) **97a:46006**
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— Negative results on the Nash-Moser theorem for Köthe sequence spaces and for spaces of ultradifferentiable functions. (English summary) **97h:46007**
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(Ross, David Louis) *see* **Leibowitz, G. M., 97c:46011**
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Saxon, Stephen A. Non-barrelled dense $\beta\varphi$ subspaces. (English summary) **97b:46011**
Solak, İhsan On difference sequences spaces generated by infinite matrices. (English summary)
Srivastava, B. K. *see* **Srivastava, J. K., 97b:46012**
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Stuart, Christopher E. Dense barrelled subspace of Banach spaces. (English summary) **97g:46005**
Terzioğlu, T. *see* **Goncharov, A. P.; et al., 97h:46010**
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Waszak, Aleksander On spaces of double sequences generated by moduli of smoothness. (English and Polish summaries) **97i:46013**
Wu, Cong Xin (*with* Bu, Qing Ying) Vector-valued sequence space $\Lambda[X]$ and its Köthe dual. III. The GAK-property and convergence of sequences. (Chinese. English and Chinese summaries) **97f:46015**
Yurdakul, Murat *see* **Dzhakov, Plamen B.; et al., 97f:46011**
Zakharyuta, V. P. Linear topologic invariants and their applications to isomorphic classification of generalized power spaces. (English and Turkish summaries) **97h:46008**
— *see also* **Dzhakov, Plamen B.; et al., 97f:46011**; **Chalov, P. A., 97b:46009**; **Goncharov, A. P.; et al., 97h:46010**; **Dzhakov, Plamen B., 97i:46009** *and* **Kocatepe, Mefharet, 97i:46010**

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— Matrix transformations in some sequence spaces. (English and Turkish summaries) **97h:47020**
Bonet, José (*with* Domański, Paweł; Lindström, Mikael; Ramanujan, M. S.) Operator spaces containing c_0 or l_{∞}. (English summary) **97b:46007**
Çakalli, H. (*with* Thorpe, B.) Cesàro means in topological groups. **97m:40007**
Chalov, P. A. (*with* Dzhakov, Plamen B.; Terzioğlu, T.; Zakharyuta, V. P.) On Cartesian products of locally convex spaces. (English summary) **97i:46002**
Çolak, Rıfat *see* **Et, Mikail, 97b:40009**
Deheri, G. M. λ-bases and $\hat{\lambda}(P_0,\varphi)$-nuclearity. (English summary) **97c:46004**
Díaz Alcaide, Juan Carlos Primariness of some universal Fréchet spaces. (English summary) **97i:46004**
Domański, Paweł *see* **Bonet, José; et al., 97b:46007**
Dzhakov, Plamen B. (*with* Yurdakul, Murat; Zakharyuta, V. P.) On Cartesian products of Köthe spaces. (English summary) **97i:46003**
— *see also* **Chalov, P. A.; et al., 97i:46002**
Et, Mikail (*with* Çolak, Rıfat) On some generalized difference sequence spaces. (English summary) **97b:40009**
Goncharov, A. P. A compact set without Markov's property but with an extension operator for C^{∞}-functions. (English summary) **97h:46032**
Graser, D. L. *see* **Stanojević, Časlav V.; et al., 97j:46008**
Jameson, G. J. O. 2-convexity and 2-concavity in Schatten ideals. **97d:46021**
Katsaras, A. K. Non-Archimedean Köthe spaces. (English summary) **97i:46138**
Khan, F. M. (*with* Rahman, M. F.) Matrix transformations on Cesàro sequence spaces of a nonabsolute type. (English summary) **97m:40002**
Kolk, Enno Matrix maps into the space of statistically convergent bounded sequences. (English and Estonian summaries) **97m:40005**
Lee, Peng Yee *see* **Unoningsih, Sri Daru; et al., 97i:47136**
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Malkowsky, Eberhard (*with* Ahmad, Z. U.) Matrix transformations between FK-spaces and the sequence spaces $m(\varphi)$ and $n(\varphi)$. (English summary) **97e:40002**
Nuray, Fatih On some new sequence spaces. (English summary) **97m:40006**
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Poppenberg, Markus Properties $(\mathrm{DN})_{(\varphi,\psi)}$ and $(\Omega)_{(\varphi,\psi)}$ for Fréchet spaces. **97c:46003**
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Savaş, Ekrem A note on paranormed sequence spaces and infinite matrices. (English summary) **97j:40005**
— (*with* Ahmad, Z. U.) Matrix transformations in some sequence spaces. (English and Turkish summaries) **97c:40003**
Schmidt, Volker² Sequence space representations of $\mathscr{F}(\Gamma+)$ and $\mathscr{D}'(\Gamma+)$. (English summary) **97m:46062**
Srinivasan, V. K. Topological linear spaces of entire Dirichlet series. (English summary) **97a:46029**

Stanojević, Časlav V. (*with* Graser, D. L.; Adams, Katherine M.) Gauss-Petrović linear functionals and slow oscillation in normed linear spaces. (English summary) **97j:46008**
— Slow oscillation in norm and structure of linear functionals. (English summary) **97j:46009**
Swartz, Charles Automatic continuity and boundedness of matrix mappings. (English summary) **97i:47050**
— The transpose of a summability matrix. (English summary) **97k:40003**
Terzioğlu, T. *see* **Chalov, P. A.; et al., 97i:46002**
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Unoningsih, Sri Daru (*with* Płuciennik, Ryszard; Lee, Peng Yee) Boundedness of superposition operators on sequence spaces. (English summary) **97i:47136**
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Yardimci, S. Core theorems for real bounded sequences. (English summary) **97k:40005**
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46A50 Compactness in topological linear spaces; angelic spaces, etc.

Cao, Ding Hua (*with* Zhu, Qi Ding) The relations among relatively weakly compact sets, relatively weakly sequentially compact sets, and relatively weakly countably compact sets in certain locally convex spaces. (Chinese. English and Chinese summaries) **97d:46006**
Turinici, Mihai Cone maximal points in compact subsets of topological vector spaces. (English and Turkish summaries) **97m:46012**
Zhu, Qi Ding *see* **Cao, Ding Hua, 97d:46006**

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Kiyosawa, T. (*with* Schikhof, W. H.) Non-Archimedean Eberlein-Šmulian theory. (English summary) **97c:46095**
Ricceri, Biagio Applications of a theorem concerning sets with connected sections. **97i:47135**
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46A55 Convex sets in topological linear spaces; Choquet theory [see also 52A07]

Cheng, Li Xin (*with* Zhou, Yunchi; Zhang, Fong) Danes' drop theorem in locally convex spaces. (English summary) **97b:46013**
Hu, Zhibao (*with* Mupasiri, Douglas) Complex strongly extreme points in quasi-normed spaces. (English summary) **97i:46014**
Mupasiri, Douglas *see* **Hu, Zhibao, 97i:46014**
Roth, Walter Integral type linear functionals on ordered cones. (English summary) **97i:46015**
Thomas, Erik G. F. Integral representations in conuclear cones. (English summary) **97d:46007**
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Chan, Jor-Ting Approximation by affine functions. **97f:41031**
Dobrowolski, Tadeusz (*with* Sakai, Katsuro) Spaces of measures on metrizable spaces. (English summary) **97f:54038**
Ercan, Z. *see* **Alpay, Şafak, 97k:46082**
Hu, Zhibao (*with* Smith, Mark A.) On the extremal structure of the unit balls of Banach spaces of weakly continuous functions and their duals. (English summary) **97h:46054**
Klee, Victor (*with* Veselý, Libor; Zanco, Clemente) Rotundity and smoothness of convex bodies in reflexive and nonreflexive spaces. (English summary) **97h:46024**
Künzi, Hans-Peter A. Structures uniformes et espaces totalement convexes. [Uniform structures and totally convex spaces] **97i:46006**
Németh, A. B. On two notions of generalized convexity and the boundary behaviour of the bivariate convex functions. (English summary) **97m:26013**
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46A80 Modular spaces

Aksoy, A. G. (*with* Lewicki, Grzegorz) Modular spaces and K-widths. (English summary) **97i:46016**
Ambrożko, Edward Countably modulared spaces and some multimodular spaces. (English summary) **97b:46014**
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— A convexity property in modular function spaces. (English summary) **97j:46022**
Lin, Pei-Kee k-uniform rotundity of Lorentz-Orlicz spaces. (English summary) **97m:46046**
Waszak, Aleksander On spaces of double sequences generated by moduli of smoothness. (English and Polish summaries) **97i:46013**

46A99 None of the above, but in this section

Chandra, Prabhat (*with* Singh, Lal Babu) On balanced extension of a set. (English summary)
Liu, Jia (*with* Luo, Yue Hu) Resonance theorems for families of additive functionals. (Chinese. English and Chinese summaries) **97e:46007**
Luo, Yue Hu *see* **Liu, Jia, 97e:46007**
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Haydon, Richard Baire trees, bad norms and the Namioka property. **97f:54023**
Henson, C. Ward (*with* Zlatoš, Pavol) Indiscernibles and dimensional compactness. (English summary) **97e:46107**
Jin, Cong A fuzzy linear topology on function spaces. (Chinese. English and Chinese summaries) **97a:46114**
Khan, Abdul Rahim *see* **Khan, Liaqat Ali[1], 97h:41065**
Khan, Liaqat Ali[1] (*with* Khan, Abdul Rahim) An extension of Brosowski-Meinardus theorem on invariant approximation. (English summary) **97h:41065**
Kumar, Uaday *see* **Sinha, Arjun Prasad**
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46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

Johnson, W. B. (*with* Lindenstrauss, J.; Schechtman, Gideon) Banach spaces determined by their uniform structures. (English summary) **97b:46016**
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46B03 Isomorphic theory (including renorming) of Banach spaces

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Cabello Piñar, Juan Carlos (*with* Nieto, Eduardo) $M(S)$-inequality and property (u). (English summary) **97g:46006**
Deville, Robert (*with* Fonf, V. P.; Hájek, Petr[2]) Analytic and C^k approximations of norms in separable Banach spaces. (English summary) **97h:46012**
Dineen, Seán (*with* Yoshida, Mamoru) Tensor products and projections. (English summary) **97a:46007**
Fernandez Castillo, Jesús M. On Banach spaces X such that $L(L_p, X) = K(L_p, X)$. **97b:46017**
Fonf, V. P. *see* **Deville, Robert; et al., 97h:46012**
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Gowers, W. T. A solution to the Schroeder-Bernstein problem for Banach spaces. (English summary) **97d:46009**
Hájek, Petr[2] Dual renormings of Banach spaces. (English summary) **97h:46013**
— Analytic renormings of $C(K)$ spaces. **97h:46014**
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Kato, Mikio (*with* Takahashi, Yasuji) On the von Neumann-Jordan constant for Banach spaces. (English summary) **97f:46017**
Kaufman, Robert *see* **Bossard, Benoît; et al., 97h:46011**
Maurey, B. A remark about distortion. **97a:46008**
— Symmetric distortion in l_2. **97a:46009**
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Põldvere, Märt Strict convexity of a smoothly renormed l_1. (English and Estonian summaries) **97i:46017**
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— On the extension of rotund norms. (English summary) **97m:46013**
— A note on preserved smoothness. **97g:46007**
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Chaatit, Fouad (*with* Khamsi, Mohamed Amine) Uniform Kadec-Klee property in Banach lattices. (English summary) **97i:46035**
Chilin, V. I. (*with* Dodds, Peter G.; Sedaev, A. A.; Sukochev, F. A.) Characterisations of Kadec-Klee properties in symmetric spaces of measurable functions. (English summary) **97d:46031**
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Farmaki, Vassiliki On Baire-1/4 functions. (English summary) **97c:46030**
Hájek, Petr[2] On convex functions in $c_0(\omega_1)$. (English summary) **97h:46069**
Hernández Rodríguez, Francisco L. (*with* Kalton, Nigel J.) Subspaces of rearrangement-invariant spaces. (English summary) **97e:46029**
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Lancien, Gilles On the Szlenk index and the weak*-dentability index. **97c:46021**
Mankiewicz, Piotr (*with* Tomczak-Jaegermann, Nicole) Structural properties of weak cotype 2 spaces. (English summary) **97i:46026**
Paulsen, Vern I. The maximal operator space of a normed space. (English summary) **97h:46028**
Power, S. C. On the Banach space isomorphism type of AF C^*-algebras and their triangular subalgebras. (English summary) **97f:46094**

Sedaev, A. A. *see* **Chilin, V. I.; et al., 97d:46031**
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46B04 Isometric theory of Banach spaces

Abramovich, Yuri A. (*with* Wickstead, Anthony W.) A Banach-Stone theorem for a new class of Banach spaces. (English summary) **97m:46014**
Cabello Sánchez, Félix (*with* Fernandez Castillo, Jesús M.) Isometries of finite-dimensional normed spaces. **97b:46018**
Dowling, P. N. (*with* Johnson, W. B.; Lennard, C. J.; Turett, B.) The optimality of James's distortion theorems. (English summary) **97d:46010**
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Jun, Kil-Woung (*with* Lee, Young-Whan) Isometries between vector valued function subspaces. (English summary) **97e:46047**
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— Linear isometric operators on the $C_0^{(n)}(X)$ type spaces. (English summary) **97d:46025**
Watbled, Frédérique Interpolation complexe d'un espace de Banach et de son antidual. (English and French summaries) [Complex interpolation of a Banach space and its antidual] **97a:46110**

46B07 Local theory of Banach spaces

Cai, Chuan Ren *see* **Yao, Lin, 97e:46010**
Felton, Anthony J. (*with* Rogosinski, H. P.) Biorthogonality in the Banach spaces $l^p(n)$. (English summary) **97e:46009**
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Yao, Lin (*with* Cai, Chuan Ren) Orthogonally symmetric strictly convex Banach planes. (Chinese. English and Chinese summaries) **97e:46010**
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Bernués, Julio A note on deviation inequalities on $\{0,1\}^c$. (English summary) **97f:60060**
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Przesławski, Krzysztof Centres of convex sets in L^p metrics. (English summary) **97g:52013**
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Şandru, Ovidiu Ilie (*with* Şandru, Ion) Recherches sur les problèmes de plongement et de finitude. (French summary) [Research on the problems of embedding and finiteness] **97f:46019**

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Harte, Robin (*with* Mbekhta, Mostafa) Almost exactness in normed spaces. II. (English summary) **97c:47013**
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Petrakis, Minos A. Ultrafilters over N and operators on L^1. **97j:46007**
Rodríguez-Palacios, Ángel Multiplicative characterization of Hilbert spaces and other interesting classes of Banach spaces. (English summary) **97m:46028**

46B09 Probabilistic methods in Banach space theory [see also 60Bxx]

Kigami, Aoi (*with* Okazaki, Yoshiaki; Takahashi, Yasuji) A generalization of Hanner's inequality. **97f:46020**
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Wei, Wen Zhan (*with* Liu, Pei De) PL-uniform convexity of complex spaces and its characterization in terms of martingales. (Chinese)

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Guo, Xin Wei Invariant Gaussian measures for bounded linear operators. (Chinese. Chinese summary) **97c:46054**
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Wan, Cheng Gao B-valued quasi-eventually martingale-like sequences and geometric characteristics of Banach spaces. (Chinese. English and Chinese summaries) **97f:60094**
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46B10 Duality and reflexivity [see also 46A25]

Barton, Thomas Joseph (*with* Yu, Xin-Tai) A generalized principle of local reflexivity. **97c:46014**
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Leung, Denny H. A note on Banach spaces with l^1-saturated duals. (English summary) **97k:46009**
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Ye, Yuan Ling[2] Dual Banach spaces X^* satisfying C*PCP. (Chinese. English and Chinese summaries) **97h:46016**
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Cui, Yun An (*with* Hudzik, Henryk; Zhu, Hongwei) On the weakly strongly exposed property and some smoothness properties of Orlicz spaces. (English summary) **97i:46053**
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Ostrovskiĭ, M. I. Classes of Banach spaces stable and unstable with respect to the opening. (English summary) **97e:46016**
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46B15 Summability and bases [see also 46A35]

Argyros, S. A. (*with* Deliyanni, I.) Examples of asymptotic l_1 Banach spaces. (English summary) **97f:46021**

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Casazza, Peter G. (*with* Kalton, Nigel J.) Unconditional bases and unconditional finite-dimensional decompositions in Banach spaces. (English summary) **97k:46010**

— (*with* Christensen, Ole) Hilbert space frames containing a Riesz basis and Banach spaces which have no subspace isomorphic to c_0. (English summary) **97g:46009**

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Plans, Antonio (*with* Leris, Dolores) On the action of a linear operator over sequences in a Banach space. (English summary) **97j:46004**

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Moiseev, E. I. (*with* Prudnikov, A. P.) On the basis property of systems of sines and cosines in the Sobolev spaces. (English summary) **97m:46053**

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Balaganskiĭ, V. S. On the connectedness of the set of points of discontinuity of the metric projection. (English summary) **97i:46019**

Banaś, Józef (*with* Sadarangani, Kishin) Near smoothness of Banach spaces. (English summary) **97c:46018**

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Blank, Mariusz On Banach spaces for which the closure of every bounded B-convex set is an intersection of balls. (English summary) **97d:46011**

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Chen, Dongjian (*with* Lin, Bor-Luh) On B-convex and Mazur sets of Banach spaces. (English summary) **97f:46027**

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— (*with* Hudzik, Henryk; Wisła, Marek) Smooth points in Orlicz sequence spaces and geometry of the dual and the bidual of Orlicz spaces. (English summary) **97i:46052**
Cui, Yun An (*with* Hudzik, Henryk; Zhu, Hongwei) On the weakly strongly exposed property and some smoothness properties of Orlicz spaces. (English summary) **97i:46053**
Hashimoto, Kazuo[1] (*with* Kato, Mikio; Takahashi, Yasuji) Generalized Clarkson's inequalities for Lebesgue-Bochner spaces. **97i:46069**
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Shi, Zhong Rui *see* **Wang, Ting Fu; et al., 97i:47052**
Suárez Granero, Antonio (*with* Hudzik, Henryk) The classical Banach spaces l_φ/h_φ. (English summary) **97b:46023**
Takahashi, Yasuji *see* **Hashimoto, Kazuo[1]; et al., 97i:46069**
Wang, Huan Xu (*with* Bu, Qing Ying; Ren, Li Wei) The Radon-Nikodým property for Banach sequence spaces $l_p[X]$. (Chinese. English and Chinese summaries) **97k:46016**
Wang, Ting Fu (*with* Shi, Zhong Rui; Zhang, Ruo Jun) Matrix expressions and norm computations for bounded linear operators between some classes of sequence spaces.

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Wisła, Marek *see* **Chen, Shu Tao; et al., 97i:46052**
Zhang, Ruo Jun *see* **Wang, Ting Fu; et al., 97i:47052**
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46B70 Interpolation between normed linear spaces [see also 46M35]

Items with secondary classifications in 46B70

Mastyło, Mieczysław (*with* Xu, Quanhua) Monotonicity between vector-valued bounded sequence spaces. (English summary) **97g:46018**
Park, Sung Ho[1] Best simultaneous approximations in a normed linear space. **97j:41014**
— (*with* Rhee, Hyang Joo) Characterization of best simultaneous approximation for a compact set. **97j:41015**
Rhee, Hyang Joo *see* **Park, Sung Ho[1], 97j:41015**
Xu, Quanhua *see* **Mastyło, Mieczysław, 97g:46018**

46B99 None of the above, but in this section

Cui, Xiu Xin The space M_ϕ^L and its applications. (Chinese. English and Chinese summaries) **97a:46027**
Díaz Madrigal, Santiago Steinhaus summability theorem revisited. **97g:46020**
Ramabhadrasarma, Ivatury (*with* Sarada Devi, A.) Finite-dimensional 2-normed Linef spaces. (English summary)
Sarada Devi, A. *see* **Ramabhadrasarma, Ivatury**

Items with secondary classifications in 46B99

Bessaga, Czesław Interplay between infinite-dimensional topology and functional analysis. Mappings defined by explicit formulas and their applications. (English summary) **97a:54019**
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Choi, Byung Mun *see* **Rhie, Gil Seob; et al., 97j:46082**
Contreras, Manuel D. (*with* Díaz Madrigal, Santiago) $C(K, A)$ and $C(K, H^\infty)$ have the Dunford-Pettis property. (English summary) **97a:46046**
Díaz Madrigal, Santiago *see* **Contreras, Manuel D., 97a:46046**
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Khan, Ahmad (*with* Perveen, Nishat; Zertaj, Shehla) Random 2-normed spaces. (English summary) **97k:46090**
Kim, Dong Sik *see* **Rhie, Gil Seob; et al., 97j:46082**
Lemańczyk, Mariusz (*with* Parreau, F.; Volný, Dalibor) Ergodic properties of real cocycles and pseudo-homogeneous Banach spaces. (English summary) **97f:28046**
Muntean, Ioan Divergence of some approximation processes and condensation of singularities: a survey. (English summary) (*see* **97i:00007**)
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Nešić, Slobodan Č. Banach spaces over topological semifields and common fixed points. (English summary) **97m:47083**
Parreau, F. *see* **Lemańczyk, Mariusz; et al., 97f:28046**
Perveen, Nishat *see* **Khan, Ahmad; et al., 97k:46090**
Rhie, Gil Seob (*with* Choi, Byung Mun; Kim, Dong Sik) On the completeness of fuzzy normed linear spaces. (English summary) **97j:46082**
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46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

Cauty, Robert Une famille d'espaces préhilbertiens σ-compacts ayant la puissance du continu. (English summary) [A family of σ-compact pre-Hilbert spaces having the power of the continuum] **97h:46030**
— Une famille d'espaces préhilbertiens σ-compacts de dimension dénombrable ayant la puissance du continu. (English summary) [A family of countably dimensional σ-compact pre-Hilbert spaces having the power of the continuum] **97h:46031**
Chalov, P. A. (*with* Zakharyuta, V. P.) Invariants and the quasiequivalence property for families of Hilbert spaces. (English summary) **97h:46036**
Luo, Xian Fa The distance from a point to a subspace of infinite codimension in a real Hilbert space. (Chinese. English and Chinese summaries) **97i:46037**
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Tuncay, Harun Sur les suites totales dans un espace de Hilbert. (French and Turkish summaries) [On total sequences in a Hilbert space] **97k:46020**
Zakharyuta, V. P. *see* **Chalov, P. A., 97i:46036**

Items with secondary classifications in 46C05

Al'ber, Ya. I. Metric and generalized projection operators in Banach spaces: properties and applications. **97b:47068**
Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, M. S.) Characterizations of inner product structures involving the radius of the inscribed or circumscribed circumference. (English summary) **97j:46017**
Balaganskiĭ, V. S. On the connectedness of the set of points of discontinuity of the metric projection. (English summary) **97i:46019**
Baran, Mirosław Two applications of the complex interpolation method. (English summary) **97h:46120**
Casazza, Peter G. (*with* Christensen, Ole) Hilbert space frames containing a Riesz basis and Banach spaces which have no subspace isomorphic to c_0. (English summary) **97g:46009**
Chaljub-Simon, Alice (*with* Volkmann, Peter) On two geometric inequalities. (English summary) **97b:51014**
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— *see also* **Casazza, Peter G., 97g:46009**
De Blasi, Francesco S. Densely connected ambiguous loci of the metric projection in Hilbert spaces. **97j:41027**
Deutsch, Frank (*with* Ubhaya, V. A.; Ward, Joseph D.; Xu, Yuesheng) Constrained best approximation in Hilbert space. III. Applications to n-convex functions. (English summary) **97e:41042**
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Dragomir, Sever Silvestru (*with* Yang, Gou Sheng) On Hua's inequality in real inner product spaces. (English summary) **97i:26023**
Foias, Ciprian (*with* Olson, Eric John) Finite fractal dimension and Hölder-Lipschitz parametrization. (English summary) **97m:58120**
Godunov, S. K. (*with* Gordienko, V. M.) Hausdorff sets of matrices and estimation of the angle between invariant subspaces. (Russian. Russian summary) **97f:47008**
Gordienko, V. M. *see* **Godunov, S. K., 97f:47008**
Guijarro Carranza, Piedad *see* **Alsina, Claudi; et al., 97j:46017**
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Petz, Dénes Monotone metrics on matrix spaces. (English summary) **97f:15056**
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Shubin, M. A. Remarks on the topology of the Hilbert Grassmannian. **97i:58011**
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Yang, Gou Sheng *see* **Dragomir, Sever Silvestru, 97i:26023**

46C15 Characterizations of Hilbert spaces

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Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, M. S.) Characterizations of inner product structures involving the radius of the inscribed or circumscribed circumference. (English summary) **97j:46017**
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Guijarro Carranza, Piedad *see* **Alsina, Claudi; et al., 97j:46017**
Kunze, Markus A nonlinear characterization of Hilbert spaces. (English summary) **97m:46027**
Mok, Jinsik A metric characterization of Hilbert spaces. **97j:46018**
Rodríguez-Palacios, Ángel Multiplicative characterization of Hilbert spaces and other interesting classes of Banach spaces. (English summary) **97m:46028**
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Zheng, Yong Ai Characterizations of inner product spaces. (Chinese. English and Chinese summaries) **97d:46022**

Items with secondary classifications in 46C15

Cui, Chuan Ren *see* **Yao, Lin, 97e:46010**
Huotari, R. (*with* Prophet, Michael; Shi, Junning) A farthest-point characterisation of the relative Chebyshev centre. (English summary) **97i:46023**
Khudalov, V. T. Regular cones in a Hilbert space. (Russian. Russian summary) **97c:46026**
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Watbled, Frédérique Interpolation complexe d'un espace de Banach et de son antidual. (English and French summaries) [Complex interpolation of a Banach space and its antidual] **97a:46110**
Yao, Lin (*with* Cai, Chuan Ren) Orthogonally symmetric strictly convex Banach planes. (Chinese. English and Chinese summaries) **97e:46010**

46C20 Spaces with indefinite inner product

Bognár, János Signature of the orthogonal companion in Krein spaces. (English summary) **97b:46025**

Items with secondary classifications in 46C20

Alpay, Daniel (*with* Bolotnikov, Vladimir; Dijksma, Aalt; de Snoo, Henk) On some operator colligations and associated reproducing kernel Pontryagin spaces. (English summary) **97a:47014**
Arocena, R. (*with* Azizov, T. Ya.; Dijksma, Aalt; Marcantognini, S. A. M.) On commutant lifting with finite defect. (English summary) **97d:47008**
Azizov, T. Ya. *see* **Arocena, R.; et al., 97d:47008**
Bolotnikov, Vladimir *see* **Alpay, Daniel; et al., 97a:47014**
Dijksma, Aalt (*with* Gheondea, Aurelian) Index formulae for subspaces of Krein spaces. (English summary) **97i:47072**
— *see also* **Alpay, Daniel; et al., 97a:47014** *and* **Arocena, R.; et al., 97d:47008**
Gheondea, Aurelian *see* **Dijksma, Aalt, 97i:47072**
Marcantognini, S. A. M. *see* **Arocena, R.; et al., 97d:47008**
de Snoo, Henk *see* **Alpay, Daniel; et al., 97a:47014**

46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

Dragomir, Sever Silvestru (*with* Pearce, C. E. M.; Pečarić, Josip E.) On Jessen's and related inequalities for isotonic sublinear functionals. (English summary) **97c:46027**
Pap, Endre (*with* Pavlović, Radoje) Adjoint theorem on semi-inner product spaces of type (p). (English summary) **97m:46029**
Pavlović, Radoje *see* **Pap, Endre, 97m:46029**
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Items with secondary classifications in 46C50

Kohli, J. K. (*with* Kumar, Rajesh[1]) Linear mappings, fuzzy linear spaces, fuzzy inner product spaces and fuzzy co-inner product spaces. (English summary) **97j:46081**
Kumar, Rajesh[1] *see* **Kohli, J. K., 97j:46081**
Rizvi, S. M. (*with* White, A. G.) Linear operators on 2-inner product spaces. (English summary) **97g:47001**
Turgunbaev, R. M. Spaces with an n-scalar product. (Russian. English and Uzbek summaries) **97h:46127**
Vondraček, Zoran An estimate for the L^2-norm of a quasicontinuous function with respect to a smooth measure. **97k:46032**
White, A. G. *see* **Rizvi, S. M., 97g:47001**

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Guo, Tie Xin (*with* You, Zhao Yong) A Riesz representation theorem for random inner product modules and its applications. (Chinese. Chinese summary) **97j:46019**
Molnár, Lajos Wigner's unitary-antiunitary theorem via Herstein's theorem on Jordan homomorphisms. (English summary) **97i:46038**
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Dragomir, Sever Silvestru (*with* Mond, B.) On the superadditivity and monotonicity of Gram's inequality and related results. **97g:26025**
— (*with* Mond, B.) On a property of Gram's determinant. **97k:26015**
Isac, George (*with* Persson, Lars-Erik) On an inequality related to the isotonicity of the projection operator. (English summary) **97f:46031**
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Wang, Zhong A limit-point criterion for generalized differential operators. (Chinese. English and Chinese summaries) **97a:34069**

46Exx Linear function spaces and their duals [see also 30H05, 32E25, 46F05; for function algebras, see 46J10]

Items with secondary classifications in 46Exx

Antonevich, Anatolii B. ★ Linear functional equations. Operator approach. (English summary) **97i:47001**
(Ding, Xia Xi) *see* **Theory of Ba spaces and its applications, 97f:46003**
Ferrando, J. C. (*with* López Pellicer, M.; Sánchez Ruiz, L. M.) ★ Metrizable barrelled spaces. (English summary) **97d:46001**
(He, Yuzan) *see* **Theory of Ba spaces and its applications, 97f:46003**
(Iacob, Andrei) *see* **Antonevich, Anatolii B., 97i:47001**
López Pellicer, M. *see* **Ferrando, J. C.; et al., 97d:46001**
(Luo, Peizhu) *see* **Theory of Ba spaces and its applications, 97f:46003**
(Muzafarov, V. M.) *see* **Antonevich, Anatolii B., 97i:47001**
Sánchez Ruiz, L. M. *see* **Ferrando, J. C.; et al., 97d:46001**

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46E05 Lattices of continuous, differentiable or analytic functions

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Adamski, Wolfgang The Alexandroff property for vector lattices of real-valued functions. (English summary) **97k:28012**
Komal, B. S. (*with* Singh, Nagesh) Composite multiplication operators on spaces of continuous functions. (English summary) **97k:47029**
Ngimbi, E. N. Canonical embedding of function spaces into the topological bidual of $C(K;E)$. (English summary) **97e:46049**
Singh, Nagesh *see* **Komal, B. S., 97k:47029**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

Albanese, Angela A. (*with* Metafune, Giorgio; Moscatelli, V. B.) Representations of the spaces $C^m(\mathbf{R}^N) \cap H^{k,p}(\mathbf{R}^N)$. **97i:46039**
Amanzhaev, G. G. ε-entropy and discrete analogues of classes of entire analytic functions. (Russian. Russian summary) **97g:46021**
Balikov, G. I. Spaces of non-quasianalytic ultradifferentiable functions with polynomial basis. (English summary) **97d:46023**
Chacón, G. (*with* Uzcátegui A., Carlos E.; Vielma, J.) Cardinality and compactness, cofinality and equicontinuity. **97f:46036**
De Pauw, Thierry Topologies for the space of BV-integrable functions in $\mathbf{R}^N$. (English summary) **97m:46030**
Goncharov, A. P. Compound invariants and spaces of C^∞ functions. (English summary) **97k:46022**
— A compact set without Markov's property but with an extension operator for C^∞-functions. (English summary) **97h:46032**
Greim, Peter (*with* Rajagopalan, Minakshisundaram) Almost transitivity in C_0L. (English summary) **97m:46031**
Juneja, O. P. (*with* Sinha, Amritasu) Proper bases, continuous linear functionals, continuous linear transformations and simultaneous automorphisms in a complete linear metric space. (English summary) **97f:46037**
Korobeĭnik, Yu. F. On the countable definability of sets. (Russian. Russian summary) **97i:46040**
— Absolutely representing systems and convolution operators in the complex domain. (English and Turkish summaries) **97i:46041**
McCoy, Robert A. (*with* Todd, Aaron R.) Support spaces and $P(K)$-points in the Stone-Čech compactification of the integers. (English summary) **97c:46028**
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Moscatelli, V. B. *see* **Albanese, Angela A.; et al., 97i:46039**
Ohya, Fumimasa (*with* Shimizu, Irie; Watanabe, Hiroshi[1]) Coefficient multipliers of $A^{p,s,\alpha}$ spaces. (English summary) **97d:46024**
Pestman, Wiebe R. Measurability of linear operators in the Skorokhod topology. (English summary) **97a:46028**
Poppenberg, Markus Tame sequence space representations of spaces of C^∞-functions. (English summary) **97f:46038**
Rajagopalan, Minakshisundaram *see* **Greim, Peter, 97m:46031**
Shen, Junpei Characterization of the relatively compact subsets of $\varphi_0^{\text{single}}$ in space $B_{2,\sigma}$. (English summary) **97f:46039**
Shimizu, Irie *see* **Ohya, Fumimasa; et al., 97d:46024**
Sinha, Amritasu *see* **Juneja, O. P., 97f:46037**
Srinivasan, V. K. Topological linear spaces of entire Dirichlet series. (English summary) **97a:46029**
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Uzcátegui A., Carlos E. *see* **Chacón, G.; et al., 97f:46036**
Valdivia, Manuel On certain linear operators in spaces of ultradifferentiable functions. (English summary) **97m:46032**
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Wang, Ri Sheng Isometries of $C_0^{(n)}(X)$. (English summary) **97m:46033**
— Linear isometric operators on the $C_0^{(n)}(X)$ type spaces. (English summary) **97d:46025**
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Wulan, Hasi Mixed-norm spaces on bounded symmetric domains. (Chinese. English and Chinese summaries) **97h:46033**
Xiao, Jie[1] Dual space, Carleson measure and sequence interpolation on $A^p(\varphi)$ $(0 < p < 1)$. (English summary) **97i:46042**

Items with secondary classifications in 46E10

Abanin, A. V. Modification of L. Hörmander's method in the problem of generators and its applications. (Russian) **97c:32011**
Albanese, Angela A. (*with* Metafune, Giorgio; Moscatelli, V. B.) Representations of the spaces $C^m(\Omega) \cap H^{k,p}(\Omega)$. **97e:46037**
Bonet, José (*with* Galbis, Antonio) The range of non-surjective convolution operators on Beurling spaces. (English summary) **97a:46052**
Coulhon, Thierry Espaces de Lipschitz et inégalités de Poincaré. (English summary) [Lipschitz spaces and Poincaré inequalities] **97a:46040**
Dierolf, P. *see* **Schmidt, Volker[2], 97e:46051**
Florencio, Miguel (*with* Mayoral, Fernando; Paúl, Pedro J.) (DF)-spaces of vector-valued integrable functions. **97c:46043**
Galbis, Antonio *see* **Bonet, José, 97a:46052**
Kąkol, Jerzy (*with* Sánchez Ruiz, L. M.) A note on the Baire and ultrabornological property of spaces $C_p(X,E)$. **97m:46056**
Kawamura, Kazuhiro (*with* Morishita, Kazuhiko) Linear topological classification of certain function spaces on manifolds and CW complexes. (English summary) **97d:54031a**
— (*with* Morishita, Kazuhiko) Addendum to: "Linear topological classification of certain function spaces on manifolds and CW complexes". **97d:54031b**
Kocatepe, Mefharet (*with* Zakharyuta, V. P.) Köthe spaces modeled on spaces of C^∞ functions. (English summary) **97i:46010**
Korobeĭnik, Yu. F. Basically simply connected sets and convolution operators in the complex domain. (English summary) **97i:47059**
Kwon, E. G. On a composition operator and Hardy space. (English summary) **97e:30062**
Kyriazis, George C. Wavelet coefficients measuring smoothness in $H_p(\mathbf{R}^d)$. (English summary) **97h:42016**
Linchuk, S. S. *see* **Zvozdets'kiĭ, T. I., 97j:47049**
Macheras, N. D. On inductive limits of measure spaces. (English summary) **97g:28015**
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Moscatelli, V. B. *see* **Albanese, Angela A.; et al., 97e:46037**
Nagnibida, N. I. On the equivalence of Euler-Pommiez operators in spaces of analytic functions. (Ukrainian. English and Ukrainian summaries) **97h:47027**
Nawrocki, Marek Köthe sequence space representations of some weighted algebras of holomorphic functions. (English summary) **97k:46062**
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Poggi-Corradini, Pietro Hardy spaces and twisted sectors for geometric models. (English summary) **97e:30063**
Poppenberg, Markus Negative results on the Nash-Moser theorem for Köthe sequence spaces and for spaces of ultradifferentiable functions. (English summary) **97h:46007**
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Schmidt, Volker[2] (*with* Dierolf, P.) A pre-dual for the convolution algebra $\mathscr{D}'(\Gamma+)$. **97e:46051**

— Sequence space representations of $\mathscr{T}(\Gamma+)$ and $\mathscr{D}'(\Gamma+)$. (English summary) **97m:46062**

Sequeira, Fernando Manuel Les espaces $\mathscr{K}(\Omega)$ et le calcul symbolique de Sebastião e Silva. (French summary) [The spaces $\mathscr{K}(\Omega)$ and the operational calculus of Sebastião e Silva] **97a:46048**

Vakarchuk, S. B. Reconstruction of linear functionals on classes of analytic functions of two variables on the basis of generalized information. (English summary) **97j:41029**

Verdoodt, Ann Orthonormal bases for spaces of continuous and continuously differentiable functions defined on a subset of $\mathbf{Z}_p$. (English summary) **97k:46086**

Zakharyuta, V. P. *see* **Kocatepe, Mefharet**, **97i:46010**

Zvozdets'kiĭ, T. Ĭ. (*with* Lĭnchuk, S. S.) A generalization of the Berg-Dimovski convolution in spaces of analytic functions. (Ukrainian. English and Ukrainian summaries) **97j:47049**

46E15 Banach spaces of continuous, differentiable or analytic functions

Aleman, Alexandru (*with* Richter, Stefan; Ross, William T.) Bergman spaces on disconnected domains. (English summary) **97i:46043**

Araujo, Jesús (*with* Font, Juan J.) Linear isometries between subspaces of continuous functions. (English summary) **97d:46026**

Aulaskari, Rauno (*with* Lappan, Peter; Xiao, Jie[1]; Zhao, Ru Han) BMOA(R, m) and capacity density Bloch spaces on hyperbolic Riemann surfaces. (English summary) **97g:46022**

Borichev, A. A. Estimates from below and cyclicity in Bergman-type spaces. **97f:46040**

Chaudhary, M. S. (*with* Thorat, S. P.) On Fourier-Jacobi transformation. (English summary) **97g:46023**

Farmaki, Vassiliki On Baire-1/4 functions. (English summary) **97c:46030**

Fefferman, Charles L. (*with* Narasimhan, Raghavan) Bernstein's inequality and the resolution of spaces of analytic functions. **97b:46026**

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Volevich, L. R. (*with* Gindikin, Simon G.) ★ Обобщенные функции и уравнения в свертках. (Russian. Russian summary) [Generalized functions and convolution equations] **97g:46041**

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Hoskins, Roy Frank Nonstandard theory of generalized functions. **97e:46096**
Langenbruch, Michael Surjective partial differential operators on spaces of ultradifferentiable functions of Roumieu type. **97e:47083**
Matsumoto, Kengo Distributions on C^*-algebras associated with $\mathbf{R}^n$-actions. **97k:46081**
Zayed, Ahmed I. ★ Handbook of function and generalized function transformations. (English summary) **97h:44001**

46F05 Topological linear spaces of test functions, distributions and ultradistributions [see also 46E10, 46E35]

Betancor, Jorge J. (*with* Marrero, Isabel) On the topology of Hankel multipliers and of Hankel convolution operators. (English summary) **97g:46042**
Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) Equivalence of the Gelfand-Shilov spaces. (English summary) **97h:46055**
Chung, Soon-Yeong *see* **Chung, Jaeyoung; et al., 97h:46055**
Damyanov, Blagovest P. Isomorphism properties of some sheaves of generalized functions on manifolds. (English summary) **97g:46043**
Dierolf, P. *see* **Schmidt, Volker², 97e:46051**
Kim, Dohan *see* **Chung, Jaeyoung; et al., 97h:46055**
Kyriazis, George C. Approximation of distribution spaces by means of kernel operators. (English summary) **97d:46041**
Łysik, Grzegorz On extendible ultradistributions. (English summary) **97h:46056**
Marrero, Isabel *see* **Betancor, Jorge J., 97g:46042**
McBride, Adam C. (*with* Rubin, Boris) Multidimensional fractional integrals and distributions. (English summary) **97m:46061**
Meise, Reinhold (*with* Taylor, B. Alan; Vogt, Dietmar) Continuous linear right inverses for partial differential operators on non-quasianalytic classes and on ultradistributions. (English summary) **97j:46036**
Nedeljkov, Marko (*with* Pilipović, Stevan) Convergence in new generalized function spaces. (English summary) **97g:46044**
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— *see also* **Nedeljkov, Marko, 97g:46044**
Rubin, Boris *see* **McBride, Adam C., 97m:46061**
Schmidt, Volker² (*with* Dierolf, P.) A pre-dual for the convolution algebra $\mathcal{D}'(\Gamma+)$. **97e:46051**
— Sequence space representations of $\mathcal{F}(\Gamma+)$ and $\mathcal{D}'(\Gamma+)$. (English summary) **97m:46062**
Sohn, Byung Keun *see* **Pahk, Dae Hyeon, 97d:46042**
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Akiyama, Hiroshi Nonstandard representations of generalized sections of vector bundles. **97a:46113**
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Bollini, C. G. (*with* Civitarese, O.; De Paoli, A. L.; Rocca, Mario Carlos) Gamow states as continuous linear functionals over analytical test functions. (English summary) **97i:81156**
Ciorănescu, Ioana Asymptotically almost periodic distributions. (English summary) **97h:46058**
Civitarese, O. *see* **Bollini, C. G.; et al., 97i:81156**
De Paoli, A. L. *see* **Bollini, C. G.; et al., 97i:81156**
Esterle, J. Closed ideals in certain Beurling algebras, and synthesis of hyperdistributions. (English summary) **97i:46093**
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Fujita, Keiko (*with* Morimoto, Mitsuo) Gevrey classes on compact real analytic Riemannian manifolds. **97a:58181**
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Kamiński, Andrzej (*with* Kovačević, D.; Pilipović, Stevan) The equivalence of various definitions of the convolution of ultradistributions. **97f:46057**
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— *see also* **Kamiński, Andrzej; et al., 97f:46057**
Poppenberg, Markus Negative results on the Nash-Moser theorem for Köthe sequence spaces and for spaces of ultradifferentiable functions. (English summary) **97h:46007**
de Rijcke, Michiel ★ Semigroups, invariance and time-invariant linear systems. (Dutch summary) **97i:47092**
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Sarrico, Carles Orlando Distributional products with invariance for the action of unimodular groups. (Italian summary) **97i:46074**
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Sequeira, Fernando Manuel Les espaces $\mathscr{K}'(\Omega)$ et le calcul symbolique de Sebastião e Silva. (French summary) [The spaces $\mathscr{K}'(\Omega)$ and the operational calculus of Sebastião e Silva] **97a:46048**
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Aguirre Téllez, Manuel A. (*with* Trione, Susana Elena) The distributional convolution products of Marcel Riesz' ultra-hyperbolic kernel. (English summary) **97a:46051**
— The product of convolution $P_+^i * P_+^\mu$ and the multiplicative product $P_+^i \cdot \delta^{(k)}(P_+)$. (English summary) **97m:46063**
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Bagarello, Fabio Multiplication of distributions in one dimension: possible approaches and applications to δ-function and its derivatives. (English summary) **97b:46051**
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Cheng, Lin Zhi A commutative neutrix convolution of distributions on $\mathbf{R}^m$. (English summary) **97g:46045**
Ciorănescu, Ioana Asymptotically almost periodic distributions. (English summary) **97h:46058**
Dal Maso, Gianni (*with* LeFloch, Philippe G.; Murat, François) Definition and weak stability of nonconservative products. (English summary) **97b:46052**
Damyanov, Blagovest P. Some distribution products in Colombeau algebra. **97d:46043**
— (*with* Fisher, Brian) On the neutrix product of distributions on C^∞-manifolds. **97h:46059**
— *see also* **Fisher, Brian; et al., 97c:46047**
Delcroix, Antoine Fonctions généralisées et analyse non standard. (English summary) [Generalized functions and nonstandard analysis] **97j:46037**
Drozhzhinov, Yu. N. (*with* Zav'yalov, B. I.) A theorem on the division of generalized functions by a homogeneous function with preservation of the quasi-asymptotics, and its application. (Russian) **97e:46052**
Dzhanashiya, G. A. Solution of the Carleman problem for the class of Gevrey functions in the multidimensional case, and the general form of a functional concentrated at a point. (Russian) **97b:46053**
Eida, Atsuhiko On the product and the convolution of ultradistributions. (English summary) **97j:46038**
Fisher, Brian (*with* Kiliçman, Adem) On the product of the function $x^r \ln(x + i0)$ and the distribution $(x + i0)^{-s}$. (English summary) **97h:46060**
— (*with* Kamiński, Andrzej) The neutrix convolution product of the distributions $\ln x_-$ and x_+^r. **97g:46046**
— (*with* Kiliçman, Adem; Damyanov, Blagovest P.; Ault, J. C.) On the non-commutative neutrix product $\ln x_+ \circ x_+^{-s}$. (English summary) **97c:46047**
— *see also* **Özçağ, Emin, 97e:46053** *and* **Damyanov, Blagovest P., 97h:46059**
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Karunakaran, V. (*with* Vijayan, A.) Paley-Wiener theorem for generalized functions. (English summary) **97g:46049**
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Kovačević, D. *see* **Kamiński, Andrzej; et al., 97f:46057**
Kurasov, P. Distribution theory for discontinuous test functions and differential operators with generalized coefficients. (English summary) **97g:46050**
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Özçağ, Emin (*with* Fisher, Brian) Some results on the commutative neutrix convolution product of distributions. (English summary) **97e:46053**
Pahk, Dae Hyeon (*with* Sohn, Byung Keun) On the solvability of convolution equations in $\mathscr{K}_M'$. (English summary) **97b:46054**
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Pilipović, Stevan (*with* Stanković, Bogoljub) Quasi-asymptotics and S-asymptotics of ultradistributions. (English summary) **97b:46055**
— Quasiasymptotics and $\mathscr{S}'$-asymptotics in $\mathscr{S}'$ and $\mathscr{D}'$. (English summary) **97e:46054**
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— Regularly varying ultradistributions. (English summary) **97h:46064**
— Structural theorems for S-bounded distributions. (English summary) **97h:46063**
— Taylor expansion for generalized functions. (English summary) **97i:46075**
— *see also* **Pilipović, Stevan, 97b:46055**
Trione, Susana Elena On the generalization of Vladimirov and Wightman generalized functions. (English summary)
— *see also* **Aguirre Téllez, Manuel A., 97a:46051**
Vijayan, A. *see* **Karunakaran, V., 97g:46049**
Wawrzyńczyk, Antoni How to make nontrivial the spectrum of a translation invariant space of smooth functions. (English summary) **97b:46056**
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Aguirre Téllez, Manuel A. The expansion and Fourier's transform of $\delta^{(k-1)}(m^2 + P)$. (English summary) **97m:46064**
Akiyama, Hiroshi Nonstandard representations of generalized sections of vector bundles. **97a:46113**
Baptiste, F. (*with* Lamb, Wilson; McGhee, D. F.) A constructive approach to generalized integral transforms. (English summary) **97j:47035**
Beattie, Ronald Continuous convergence and functional analysis. (English summary) **97c:46092**
Bros, Jacques (*with* Moschella, Ugo) Two-point functions and quantum fields in de Sitter universe. (English summary) **97d:81137**
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Colombeau, J. F. (*with* Heibig, Arnaud; Oberguggenberger, Michael) Generalized solutions to partial differential equations of evolution type. (English summary) **97j:35011**
Dai, Xinrong (*with* Huang, Daren; Sun, Qiyu) Some properties of five-coefficient refinement equation. **97k:39028**
Danilov, V. G. Letter to the editor: "A representation of the delta function via creation operators and Gaussian exponentials, and multiplicative fundamental solution asymptotics for some parabolic pseudodifferential equations" [Russian J. Math. Phys. **3** (1995), no. 1, 25–40; MR 96j:58165]. **97h:58162**
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Delcroix, Antoine Quelques remarques sur l'analyse non standard et les théories non linéaires de fonctions généralisées. [Some remarks on nonstandard analysis and nonlinear theories of generalized functions] **97i:03041**
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Meise, Reinhold (*with* Taylor, B. Alan; Vogt, Dietmar) Continuous linear right inverses for partial differential operators on non-quasianalytic classes and on ultradistributions. (English summary) **97j:46036**
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— (*with* González Rodríguez, Benito) A convolution operation for a distributional Hankel transformation. (English summary) **97c:46049**
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— (*with* Upadhyay, Satyanshu K.) U^{μ}_{α}-spaces and Hankel transform. (English summary) **97i:46077**
Pilipović, Stevan (*with* Stanković, Bogoljub) Tauberian theorems for integral transforms of distributions. **97k:46045**
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Zhu, Tongjiang The similarity transformation of regularizing functionals and similarity property of their Fourier transformations. (English and Chinese summaries) **97e:46055**
— The Fourier transform of a sort of generalized function. (English and Chinese summaries) **97m:46069**

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Aguirre Téllez, Manuel A. The product of convolution $P^{\lambda}_{\pm} * P^{\mu}_{\mp}$ and the multiplicative product $P^{\lambda}_{\pm} \cdot \delta^{(k)}(P_{\pm})$. (English summary) **97m:46063**
Baptiste, F. (*with* Lamb, Wilson; McGhee, D. F.) A spectral approach to distributional extensions of normal operators. (English summary) **97i:47032**
Betancor, Jorge J. (*with* Linares Linares, Manuel; Méndez Pérez, José Manuel Romulo) The Hankel transform of integrable Boehmians. (English summary) **97h:44010**
— (*with* Linares Linares, Manuel; Méndez Pérez, José Manuel Romulo) The Hankel transform of tempered Boehmians. (Italian summary) **97j:44008**
Boman, Jan Uniqueness theorems of Holmgren type for generalized Radon transforms. (*see* **97k:35003**)
Buschman, R. G. ★ Integral transformations, operational calculus, and generalized functions. (English summary) **97j:44001**
Chaudhary, M. S. *see* **Reddy, B. P., 97d:44001**
Gupta, Neelmani *see* **Saxena, Ram Kishore, 97b:44009**
Kaneko, Akira (*with* Takiguchi, Takashi) Hyperfunctions and Radon transform. (English summary) **97e:44002**
Karunakaran, V. (*with* Vijayan, A.) Paley-Wiener theorem for generalized functions. (English summary) **97g:46049**
Koh, E. L. (*with* Li, Chen-Kuan) On the inverse of the Hankel transform. (English summary) **97h:44006**
Komatsu, Hikosaburo Multipliers for Laplace hyperfunctions—a justification of Heaviside's rules. (English summary) **97d:46046**
Lamb, Wilson *see* **Baptiste, F.; et al., 97i:47032**
Li, Chen-Kuan *see* **Koh, E. L., 97h:44006**
Linares Linares, Manuel *see* **Betancor, Jorge J.; et al., 97h:44010** *and* **97j:44008**
Mahato, Anil Kumar (*with* Saksena, K. M.) A generalised Laplace transform of generalised functions. **97k:44007**
McGhee, D. F. *see* **Baptiste, F.; et al., 97i:47032**
Méndez Pérez, José Manuel Romulo *see* **Betancor, Jorge J.; et al., 97h:44010** *and* **97j:44008**
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Morimoto, Mitsuo Cauchy transformation of analytic functionals on the sphere. **97d:46047**
Panchal, S. K. (*with* More, S. V.) On abelian theorems of distributional modified Marchi-Zgrablich transformation. (English summary) **97e:44009**

— (*with* More, S. V.) On modified Marchi-Zgrablich transformation of generalized functions. (English summary) **97e:44008**
Pandey, J. N. ★ The Hilbert transform of Schwartz distributions and applications. (English summary) **97e:44010**
Pilipović, Stevan Quasiasymptotic expansion and the Laplace transformation. (English summary) **97g:44004**
Reddy, B. P. (*with* Chaudhary, M. S.) On distributional even generalized Legendre transform. (English summary) **97d:44001**
Romashevskiĭ, A. B. The Mellin transformation in the algebra of mnemonic functions. (Russian. English and Russian summaries) **97d:46063**
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Saxena, Ram Kishore (*with* Gupta, Neelmani) A complex inversion theorem for a modified H-transformation of distributions. (English summary) **97b:44009**
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Ziemian, Bogdan Generalized analytic functions with applications to singular ordinary and partial differential equations. **97f:30066**

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

Boman, Jan Microlocal quasianalyticity for distributions and ultradistributions. **97d:46045**
Carmichael, Richard D. Representation of holomorphic functions in tubes and boundary values. (English summary) **97f:46060**
— (*with* Pilipović, Stevan) Elements of $\mathcal{B}'_{L^1}(\mathbf{R}^n)$ as boundary values. **97f:46061**
Estrada, Ricardo Asymptotic approximation of analytic functionals. (Spanish. English summary) **97c:46051**
Fujita, Keiko *see* **Morimoto, Mitsuo, (97c:00041)**
Imunink, G. K. Multisummability and the Stokes phenomenon. (English summary) **97c:46052**
Ito, Yoshifumi Theory of Fourier microfunctions of several types. I. (English summary) **97b:46059**
Komatsu, Hikosaburo Multipliers for Laplace hyperfunctions—a justification of Heaviside's rules. (English summary) **97d:46046**
Morimoto, Mitsuo Cauchy transformation of analytic functionals on the sphere. **97d:46047**
— (*with* Fujita, Keiko) Harmonic functions and analytic functionals on complex light cones. (Japanese) (*see* **97c:00041**)
Pilipović, Stevan *see* **Carmichael, Richard D., 97f:46061**
Sabadini, Irene (*with* Struppa, Daniele C.) Topologies on quaternionic hyperfunctions and duality theorems. (English summary) **97d:46048**
Struppa, Daniele C. *see* **Sabadini, Irene, 97d:46048**
Takiguchi, Takashi Radon transform of hyperfunctions and problems of support. (*see* **97c:00055**)
Yoshino, Kunio Transformations $\tilde{G}$ for analytic functionals and its applications. (*see* **97c:00041**)

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Cheng, Yuan Fourier hyperfunctions, exponential functions and Avanissian-Gay transformations. (Japanese) (*see* **97c:00055**)
Cordaro, Paulo D. A survey on the problem of local solvability for systems of vector fields. (English summary) (*see* **97k:00025**)
Gyōja, Akihiko Recent developments in prehomogeneous vector spaces. (Japanese) **97f:20052**
Ishimura, Ryuichi (*with* Okada, Jun-ichi) On the equivalence of the condition (S) of Kawai and the property of regular growth. **97h:32005**
Kaneko, Akira (*with* Takiguchi, Takashi) Hyperfunctions and Radon transform. (English summary) **97e:44002**
Komatsu, Hikosaburo Laplace transforms of hyperfunctions and their applications. **97e:44013**
— Solution methods for differential equations based on Laplace hyperfunctions. (Japanese) (*see* **97c:00041**)
Langenbruch, Michael Hyperfunction fundamental solutions of surjective convolution operators on real analytic functions. (English summary) **97h:35004**
Lumer, Günter Transitions singulières gouvernées par des équations de type parabolique. (English and French summaries) [Singular transitions governed by equations of parabolic type] **97c:35023**
Morimoto, Mitsuo Entire functions of exponential type on the complex sphere. **97e:32005**
Okada, Jun-ichi *see* **Ishimura, Ryuichi, 97h:32005**
Takeuchi, Kiyoshi[2] Théorèmes de type edge of the wedge pour les solutions hyperfonctions. (English and French summaries) [Edge of the wedge type theorems for hyperfunction solutions] **97g:32011**
Takiguchi, Takashi *see* **Kaneko, Akira, 97e:44002**
Torossian, Charles Un théorème d'unicité pour les distributions sphériques sur l'espace tangent à un espace symétrique. (French summary) [A uniqueness theorem for spherical distributions on the tangent space of a symmetric space] **97k:43016**

46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

Pilipović, Stevan Elements of $\mathcal{B}'^{(M_p)}_{L^1}$ and $\mathcal{B}'^{\{M_p\}}_{L^1}$ as boundary values of holomorphic functions. (English summary) **97m:46070**

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(Boas, Harold P.) *see* **Kytmanov, A. M., 97f:32004**
Boman, Jan Microlocal quasianalyticity for distributions and ultradistributions. **97d:46045**
Kytmanov, A. M. ★ The Bochner-Martinelli integral and its applications. (English summary) **97f:32004**
Li, Bang He (*with* Li, Yaqing) Multiplication of distributions via harmonic representations. **97c:46048**
Li, Yaqing *see* **Li, Bang He, 97c:46048**
Liu, Shang Ping Extension of H^p space and $\mathcal{B}_{L^p}$ distributions ($1 < p < +\infty$). (English summary) **97f:42037**

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Berezanskiĭ, Yu. M. A connection between the theory of hypergroups and white noise analysis. (English summary) **97i:46078**
Huffman, Timothy (*with* Park, Chull; Skoug, David) Generalized transforms and convolutions. (English summary) **97k:46047**
Kang, Soon-Ja A Poisson equation associated with an integral kernel operator. (English summary) **97m:46071**
Kondrat'ev, Yu. G. (*with* Leukert, Peter; Streit, Ludwig) Wick calculus in Gaussian analysis. (English summary) **97f:46062**
Lee, Jung-Soon Kim Heat equation in white noise analysis. **97j:46042**
Lee, Yuh Jia Positive generalized functions on infinite-dimensional spaces. (English summary) **97j:46043**
Leukert, Peter *see* **Kondrat'ev, Yu. G.; et al., 97f:46062**
Liu, Kai (*with* Yan, Jia An) Euler operator and homogeneous Hida distributions. (English summary) **97h:46066**
Obata, Nobuaki Constructing one-parameter transformations on white noise functions in terms of equicontinuous generators. **97g:46054**
Park, Chull *see* **Huffman, Timothy; et al., 97k:46047**
Skoug, David *see* **Huffman, Timothy; et al., 97k:46047**
Streit, Ludwig *see* **Kondrat'ev, Yu. G.; et al., 97f:46062**
Yan, Jia An *see* **Liu, Kai, 97h:46066**
Yokoi, Yoshitaka On continuity of test functionals in infinite-dimensional Bargmann space. **97b:46060**

Items with secondary classifications in 46F25

Albeverio, Sergio (*with* Daletskiĭ, Yuriĭ L'vovich; Kondrat'ev, Yu. G.; Streit, Ludwig) Non-Gaussian infinite-dimensional analysis. (English summary) **97h:46073**
Carmona, René A. (*with* Yan, Jia An) A new space of white noise distributions and applications to SPDE's. (English summary) **97b:60105**
Chae, H. C. (*with* Mitoma, I.) Invariant nuclear space of Γ-operator. **97i:46072**
Chung, Dong Myung (*with* Ji, Un Cig) Cauchy problems for a partial differential equation in white noise analysis. **97i:35183**
— (*with* Chung, Tae Su) Wick derivations on white noise functionals. **97j:60069**
Chung, Tae Su *see* **Chung, Dong Myung, 97j:60069**
Daletskiĭ, Yuriĭ L'vovich *see* **Albeverio, Sergio; et al., 97h:46073**
Dôku, Isamu On pseudo-Fourier-Mehler transforms and infinitesimal generators in white noise calculus. **97c:60167**
Huang, Zhiyuan *see* **Khrennikov, A. Yu., 97f:46120**
Imkeller, Peter (*with* Yan, Jia An) New distributions over Wiener and Euclidean spaces. (English summary) **97j:60099**
Ji, Un Cig *see* **Chung, Dong Myung, 97i:35183**
Khrennikov, A. Yu. (*with* Huang, Zhiyuan) A model for white noise analysis in p-adic number fields. (English summary) **97f:46120**
Kondrat'ev, Yu. G. (*with* Streit, Ludwig; Westerkamp, W.) A note on positive distributions in Gaussian analysis. (English and Ukrainian summaries) **97e:60070**
— (*with* Leukert, Peter; Potthoff, Jürgen; Streit, Ludwig; Westerkamp, W.) Generalized functionals in Gaussian spaces: the characterization theorem revisited. (English summary) **97j:60070**
— *see also* **Albeverio, Sergio; et al., 97h:46073**
Krée, P. Exponentielles et fonctionnelles de Schwinger en analyse gaussienne non commutative. (English and French summaries) [Exponentials and Schwinger functionals in noncommutative Gaussian analysis] **97e:81075**
Kuo, Hui-Hsiung Analysis of white noise functionals. **97b:60070**
— ★ White noise distribution theory. **97m:60056**
Lee, Yuh Jia Transformations of white noise functionals and applications. **97k:60222**
Leukert, Peter *see* **Kondrat'ev, Yu. G.; et al., 97j:60070**
Malliavin, Paul (*with* Taniguchi, Setsuo) Extension holomorphe des fonctionnelles analytiques définies sur un espace de Wiener réel, formule de Cauchy, phase stationnaire. (English and French summaries) [Holomorphic extension of analytic functionals defined on a real Wiener space, Cauchy formula, stationary phase] **97i:58181**
Matsumoto, Kengo Periodic distributions on C^*-algebras. **97f:46116**
Mitoma, I. *see* **Chae, H. C., 97i:46072**
Ng, Siu-Ah Gradient lines and distributions of functionals in infinite-dimensional Euclidean spaces. **97h:28012**
Obata, Nobuaki Lie algebras containing infinite-dimensional Laplacians. **97i:46079**
— Derivations on white noise functionals. **97m:46073**
— Generalized quantum stochastic processes on Fock space. **97a:81105**
— Conditional expectation in classical and quantum white noise calculi. **97k:81084**
Potthoff, Jürgen (*with* Timpel, Matthias) On a dual pair of spaces of smooth and generalized random variables. (English summary) **97j:60096**
— *see also* **Kondrat'ev, Yu. G.; et al., 97j:60070**
Streit, Ludwig *see* **Kondrat'ev, Yu. G.; et al., 97e:60070**; **Albeverio, Sergio; et al., 97h:46073** *and* **Kondrat'ev, Yu. G.; et al., 97j:60070**
Taniguchi, Setsuo *see* **Malliavin, Paul, 97i:58181**
Timpel, Matthias *see* **Potthoff, Jürgen, 97j:60096**
Uglanov, A. V. On the development of measure theory. (Russian) **97k:28029**
Us, G. F. Dual Appell systems in Poissonian analysis. (English summary) **97e:46057**
Watanabe, Hisao Donsker's δ-function and its applications in the theory of white noise analysis. (English summary) **97k:60113**
Westerkamp, W. *see* **Kondrat'ev, Yu. G.; et al., 97e:60070** *and* **97j:60070**
Yan, Jia An Inequalities for products of white noise functionals. (English summary) **97j:60071**
— *see also* **Carmona, René A., 97b:60105** *and* **Imkeller, Peter, 97j:60099**

46F99 None of the above, but in this section

Items with secondary classifications in 46F99

Bonahon, Francis Transverse Hölder distributions for geodesic laminations. **97j:57015**
Kanwal, Ram P. Applications of generalized functions to propagating and deforming interfaces. (English summary) (*see* **97a:00029**)
(Kashiwara, Masaki) *see* **Schapira, Pierre**, **97f:32011**
Koike, Minoru Inverse mapping theorem in the ultradifferentiable class. **97k:58022**
Platonov, S. S. Invariant subspaces in some function spaces on symmetric spaces. I. (Russian. Russian summary) **97d:43013**
Schapira, Pierre Constructible sheaves, Whitney functions and Schwartz's distributions. **97f:32011**

46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) {For nonlinear functional analysis, see 47Hxx, 58–XX, especially 58Cxx.}

Obata, Nobuaki Lie algebras containing infinite-dimensional Laplacians. **97i:46079**

46G05 Derivatives [see also 58C20, 58C25]

Baranovich, A. M. (*with* Daletskiĭ, Yurīĭ L'vovich) Some differential-geometric models in the class of formal operator power series. (Russian. English and Ukrainian summaries) **97j:46044**
Bayoumi, Aboubakr Mean value theorem for real locally bounded spaces. (English summary) **97h:46067**
Daletskiĭ, Yurīĭ L'vovich *see* **Baranovich, A. M.**, **97j:46044**
Dontchev, Asen L. The Graves theorem revisited. (English summary) **97g:46055**
Feller, M. N. Necessary and sufficient conditions of harmonicity of functions of infinitely many variables (Jacobian case). (English summary) **97m:46072**
Ferrer-Llopis, Jesús Rolle's theorem fails in l_2. **97h:46068**
Giles, J. R. Generic differentiability of locally Lipschitz functions on product spaces. (English summary) **97g:46056**
— (*with* Sciffer, S. D.) On weak Hadamard differentiability of convex functions on Banach spaces. (English summary) **97g:46057**
— (*with* Kenderov, P. S.; Moors, Warren B.; Sciffer, S. D.) Generic differentiability of convex functions on the dual of a Banach space. (English summary) **97i:46080**
Hájek, Petr² On convex functions in $c_0(\omega_1)$. (English summary) **97h:46069**
Harris, Lawrence A. Bernstein's polynomial inequalities and functional analysis. **97h:46070**
Kalton, Nigel J. The existence of primitives for continuous functions in a quasi-Banach space. (English summary) **97h:46071**
Kenderov, P. S. *see* **Giles, J. R.; et al.**, **97i:46080**
Moors, Warren B. *see* **Giles, J. R.; et al.**, **97i:46080**
Read, John A bornological approach to rotundity and smoothness applied to approximation. (English summary) **97k:46048**
Rolewicz, Stefan On Φ-differentiability of functions over metric spaces. **97d:46049**
— On approximations of functions on metric spaces. (English and Polish summaries) **97f:46063**
Sciffer, S. D. *see* **Giles, J. R.**, **97g:46057** *and* **97i:46080**
Slezák, B. An inverse-function theorem in topological groups. **97a:46055**

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Accardi, Luigi Yang-Mills equations and Lévy-Laplacians. (English summary) **97c:46093**
Bertin, E. M. J. Potential theory of the Monge-Ampère equation on a Banach space. (*see* **97f:00034**)
Bogachev, V. I. (*with* Mayer-Wolf, Eddy) Some remarks on Rademacher's theorem in infinite dimensions. (English summary) **97d:28018**
Bogdanskiĭ, Yu. V. Cauchy problem for an essentially infinite-dimensional parabolic equation with variable coefficients. (English summary) **97m:35269a**
— Dirichlet problem for the Poisson equation with an essentially infinite-dimensional elliptic operator. (English summary) **97m:35269b**
— The Neumann problem for a Laplace equation with the essentially infinite-dimensional elliptic operator. (Ukrainian summary) **97c:35203**
Borwein, Jonathan M. (*with* Vanderwerff, Jon D.) A survey on renorming and set convergence. **97e:46012**
Cannarsa, Piermarco (*with* Da Prato, Giuseppe) Infinite-dimensional elliptic equations with Hölder-continuous coefficients. (English summary) **97g:35174**
Čap, Andreas (*with* Schichl, Hermann) Characteristic classes for A-bundles. **97h:57047**
Chen, Feng Xin *see* **Dai, Zheng De; et al.**, **97f:47058**
Combari, C. (*with* Laghdir, M.; Thibault, L.) A note on subdifferentials of convex composite functionals. **97h:49024**
Contreras, Manuel D. Strong subdifferentiability in spaces of vector-valued continuous functions. **97f:46055**
Dai, Zheng De (*with* Qu, Chao Chun; Chen, Feng Xin) (E_0, E) asymptotically smooth maps and dissipative wave equations. (English and Chinese summaries) **97f:47058**
Da Prato, Giuseppe *see* **Cannarsa, Piermarco**, **97g:35174**
Dihn The Luc *see* **Jofré, Alejandro; et al.**, **97h:49025**
Dragomir, Sever Silvestru A characterization of reflexivity. **97i:46018**
Feller, M. N. On a nonlinear equation not solved with respect to the Lévy Laplacian. (Russian. English and Ukrainian summaries) **97m:35271**
Fournier, Gilles (*with* Violette, Donald) Differentiability of single-valued type for a class of multivalued maps. (English summary) **97b:58015**
Guiotto, Paolo Cauchy problem for nonautonomous Kolmogorov equations. (English summary) **97d:35232**
Hájek, Petr² On C^2-smooth norms on c_0. (English summary) **97m:46022**
Hamilton, E. P. (*with* Nashed, M. Zuhair) Variational derivatives in function spaces. (English summary) (*see* **97a:00029**)
Hess, Christian On the measurability of the conjugate and the subdifferential of a normal integrand. (English summary) **97i:49022**
Ioffe, Alexandre D. Non-smooth subdifferentials: their calculus and applications. (*see* **97a:00029**)
Jofré, Alejandro (*with* Dihn The Luc; Théra, Michel) ε-subdifferential calculus for nonconvex functions and ε-monotonicity. (English and French summaries) **97h:49025**
Jourani, Abderrahim (*with* Thibault, L.) Extensions of subdifferential calculus rules in Banach spaces. (English summary) **97d:49018**
Koike, Minoru Inverse mapping theorem in the ultradifferentiable class. **97k:58022**
Laghdir, M. *see* **Combari, C.; et al.**, **97h:49024**
Lee, Jung-Soon Kim Heat equation in white noise analysis. **97j:46042**
Li, Yi Quan *see* **Zou, Kai**
Mayer-Wolf, Eddy *see* **Bogachev, V. I.**, **97d:28018**
Mordukhovich, Boris S. (*with* Shao, Yong Heng) On nonconvex subdifferential calculus in Banach spaces. (English summary) **97a:49022**
— (*with* Shao, Yong Heng) Nonconvex differential calculus for infinite-dimensional multifunctions. (English summary) **97i:49024**
Nashed, M. Zuhair *see* **Hamilton, E. P.**, (**97a:00029**)
Neves, Vítor Difference quotients and smoothness (a conjecture of Keith Stroyan). **97h:46129**
Niculescu, Constantin P. (*with* Rădulescu, Vicenţiu D.) A saddle point theorem for non-smooth functionals and problems at resonance. (English summary) **97a:58030**
Páles, Zsolt (*with* Zeidan, V. M.) Generalized Hessian for $C^{1,1}$ functions in infinite-dimensional normed spaces. (English summary) **97d:49019**
Pham Khac Ban Differential forms of type $(0, q)$ on complete convex bornological vector spaces. (English summary) **97e:32020**
Poppenberg, Markus A smoothing property for Fréchet spaces. (English summary) **97m:46002**
— Negative results on the Nash-Moser theorem for Köthe sequence spaces and for spaces of ultradifferentiable functions. (English summary) **97h:46007**
— An inverse function theorem for Fréchet spaces admitting generalized smoothing operators. **97f:58013**
Qu, Chao Chun *see* **Dai, Zheng De; et al.**, **97f:47058**
Rădulescu, Vicenţiu D. *see* **Niculescu, Constantin P.**, **97a:58030**
Saidi, Fathi B. Subdifferentials and approximation theory. (English summary) **97a:41036**
Saitô, Kimiaki The Fourier-Mehler transform and the Lévy Laplacian. **97f:46066**
Schichl, Hermann *see* **Čap, Andreas**, **97h:57047**
Serovaĭskiĭ, S. Ya. An inverse mapping theorem and extended differentiability in Banach spaces. (Russian) **97g:49023**
Shao, Yong Heng *see* **Mordukhovich, Boris S.**, **97a:49022** *and* **97i:49024**
Slezák, B. Implicit function theorem in uniform spaces. **97d:54055**
Tang, Wee-Kee Uniformly differentiable bump functions. (English summary) **97j:46010**
Théra, Michel *see* **Jofré, Alejandro; et al.**, **97h:49025**
Thibault, L. *see* **Jourani, Abderrahim**, **97d:49018** *and* **Combari, C.; et al.**, **97h:49024**
Thomas, Erik G. F. Vector fields as derivations on nuclear manifolds. (English summary) **97d:58012**
Tsar'kov, I. G. Some theorems on the smoothing of functions. (Russian) **97i:46073**
Vanderwerff, Jon D. *see* **Borwein, Jonathan M.**, **97e:46012**
Violette, Donald *see* **Fournier, Gilles**, **97b:58015**
Welsh, Stewart C. Open mappings and solvability of nonlinear equations in Banach space. (English summary) **97h:47061**
Zeidan, V. M. *see* **Páles, Zsolt**, **97d:49019**
Zou, Kai (*with* Li, Yi Quan) Weakly subdifferentiable regularity of locally Lipschitz functions. (Chinese. English and Chinese summaries)

46G10 Vector-valued measures and integration [see also 28Bxx, 46B22]

Abudukelimu, Aji (*with* Bailikezi, Yunusi) Weak Riemann-Stieltjes integration in weakly complete Banach spaces. (Chinese. English and Chinese summaries) **97h:46072**
Avallone, Anna (*with* Hamhalter, Jan) Extension theorems (vector measures on quantum logics). **97a:46056**
Bailikezi, Yunusi *see* **Abudukelimu, Aji**, **97h:46072**
Brooks, James K. (*with* Dinculeanu, Nicolae) Integration in Banach spaces. Application to stochastic integration. **97d:46050**
Dinculeanu, Nicolae *see* **Brooks, James K.**, **97d:46050**
Hamhalter, Jan *see* **Avallone, Anna**, **97a:46056**
Kim, Young Kuk Near Dunford-Pettis operators and NRNP. **97f:46064**
Luo, Yue Hu *see* **Qu, Kai She**, **97g:46058**
Peterburgsky, Irina On Pettis and Bochner integrability of abstract functions. (English summary) **97i:46081**
Piñeiro, Cándido On p-summable sequences in the range of a vector measure. (English summary) **97i:46082**
Popa, Dumitru Measures with relatively norm compact range and ∞-nuclear operators. (English summary) **97j:46045**
Qu, Kai She (*with* Luo, Yue Hu) The conditions for the correctness of the Newton-Leibniz formula on a Banach space. (Chinese. English and Chinese summaries) **97g:46058**
Sambucini, Anna Rita A Radon-Nikodým theorem in locally convex spaces with respect to integration by seminorms. (Italian. English summary) **97e:46056**
Sun, Yeneng Integration of correspondences on Loeb spaces. (English summary) **97f:46065**

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Blei, Ron C. Projectively bounded Fréchet measures. **97a:28009**
Boccuto, Antonio Abstract integration in Riesz spaces. (English summary) **97e:28028**
— Vitali-Hahn-Saks and Nikodym theorems for means with values in Riesz spaces. **97f:28030**
Canoy, Sergio R., Jr. (*with* Navarro, Milagros P.) A Denjoy-type integral for Banach-valued functions. (English summary) **97a:28007**
Celada, Pietro Densities of Banach-valued finitely additive measures. (English summary) **97k:28018**

Cerf, Raphaël (*with* Mariconda, Carlo) Chebyshev measures. (English summary) **97m:41027**
Chen, Ze Qian (*with* Liu, Hong Mei) Parametrized measures and representation problems of a class of operators. (Chinese. English and Chinese summaries) **97h:47024**
Dawson, C. Bryan On convergence of conditional expectation operators. (English summary) **97i:47057**
De Lia, Anthony (*with* Mikusiński, Piotr) A Daniell-type integral with values in a Banach space. **97b:28012**
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46G15 Functional analytic lifting theory [see also 28A51]

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Choi, Yun Sung (*with* Kim, Sung Guen) Norm or numerical radius attaining multilinear mappings and polynomials. (English summary) **97f:46029**

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Krée, P. Exponentielles et fonctionnelles de Schwinger en analyse gaussienne non commutative. (English and French summaries) [Exponentials and Schwinger functionals in noncommutative Gaussian analysis] **97e:81075**

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Malliavin, Paul (*with* Taniguchi, Setsuo) Extension holomorphe des fonctionnelles analytiques définies sur un espace de Wiener réel, formule de Cauchy, phase stationnaire. (English and French summaries) [Holomorphic extension of analytic functionals defined on a real Wiener space, Cauchy formula, stationary phase] **97i:58181**

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Reich, Simeon (*with* Shoĭkhet, D. M.) Generation theory for semigroups of holomorphic mappings in Banach spaces. (English summary) **97g:47071**

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Taniguchi, Setsuo On almost complex structures on abstract Wiener spaces. **97e:60094**

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Repovš, Dušan D. (*with* Semënov, P. V.) On functions of nonconvexity for graphs of continuous functions. (English summary) **97b:46090**

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46H05 General theory of topological algebras

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Akkar, Mohamed (*with* Nacir, C.) Sur le critère d'inversibilité dans l'algèbre normée des endomorphismes continus d'un espace normé. [On the invertibility criterion in the normed algebra of continuous endomorphisms of a normed space] **97h:46074**

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— (*with* Dedania, H. V.) On seminorms, spectral radius and Ptàk's spectral function in Banach algebras. (English summary) **97b:46065**

Brešar, Matej (*with* Šemrl, Peter) Spectral characterizations of central elements in Banach algebras. (English summary) **97d:46053**

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— (*with* Martínez-Moreno, Juan) Inner derivations on ultraprime normed algebras. (English summary) **97i:46085**

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El-Helaly, Sherif Antinormed algebras. (English summary) **97f:46068**

El Kinani, A. (*with* Oudadess, Mohamed) Un critère généralisé de Le Page et commutativité. (English and French summaries) [A generalised Le Page criterion and commutativity] **97h:46075**

Harris, Lawrence A. (*with* Kadison, Richard V.) Schurian algebras and spectral additivity. (English summary) **97d:46054**

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Koliha, J. J. Isolated spectral points. (English summary) **97a:46057**

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46Kxx Topological (rings and) algebras with an involution [see also 16W10]

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— Künneth splittings and classification of C^*-algebras with finitely many ideals. (English summary) **97j:46057**
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— (*with* Gong, Guihua) On inductive limits of matrix algebras over the two-torus. (English summary) **97g:46073**
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Denizeau, Yves (*with* Havet, Jean-François) Correspondances d'indice fini. II. Indice d'une correspondance. (English summary) [Correspondences with finite index. II. Index of a correspondence] **97i:46110**

Dorofeev, S. V. (*with* Thomsen, Klaus) Formulae and continuity for the index of subfactors. (English summary) **97i:46111**
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Gaure, Simen Some properties of free shifts on infinite free product factors. **97e:46086**
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46L80 K-theory and operator algebras (including cyclic theory) [see also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]

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46L89 Other "noncommutative" mathematics based on C^*-algebra theory [see also 58B30, 58G12]

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46L99 None of the above, but in this section

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46Mxx Methods of category theory in functional analysis [see also 18–XX]

46M05 Tensor products [see also 46A32, 46B28, 47A80]

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Archbold, Robert J. (*with* Somerset, Douglas W. B.; Kaniuth, Eberhard; Schlichting, Günter) Ideal spaces of the Haagerup tensor product of C^*-algebras. (English summary) **97m:46089**
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Dineen, Seán (*with* Yoshida, Mamoru) Tensor products and projections. (English summary) **97a:46007**
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— (*with* Lindström, Mikael; Schlüchtermann, Georg) Grothendieck operators on tensor products. (English summary) **97j:46012**
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Ge, Liming (*with* Kadison, Richard V.) On tensor products for von Neumann algebras. **97c:46074**
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46M07 Ultraproducts [see also 46B08, 46S20]

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Dierolf, Susanne (*with* Frerick, Leonhard; Mangino, Elisabetta; Wengenroth, Jochen) Examples on projective spectra of (LB)-spaces. (English summary) **97b:46005**
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Kandelaki, T. K. K-theory of Z_2-graded Banach categories. II. (English and Georgian summaries) **97j:46079**
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Kleisli, Heinrich (*with* Künzi, Hans-Peter A.; Rosický, Jiří) A topological Banach space model of linear logic. (English summary) **97k:03068**
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— *see also* **Kleisli, Heinrich; et al., 97k:03068**
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Monadi, A. (*with* Nel, Louis Daniel[1]) Holomorphic maps on domains with empty interior. (English summary) **97i:46084**
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Wendt, Michael A. Measurable Hilbert sheaves. (English summary) **97h:46119**
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— *see also* **Dierolf, Susanne; et al., 97b:46005**

46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]

Brodzki, Jacek Simplicial normalization in the entire cyclic cohomology of Banach algebras. (English summary) **97b:46084**
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— On Fredholm index in Banach spaces. (English summary) **97d:47014**
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Cabello Sánchez, Félix (*with* Fernandez Castillo, Jesús M.) Report on twisted sums of Banach spaces.
Čap, Andreas (*with* Schichl, Hermann) Characteristic classes for A-bundles. **97h:57047**
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Damyanov, Blagovest P. Isomorphism properties of some sheaves of generalized functions on manifolds. (English summary) **97g:46043**
Exel, Ruy (*with* Laca, Marcelo) Continuous Fell bundles associated to measurable twisted actions. (English summary) **97e:46073**
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Forrest, Brian E. (*with* Marcoux, Laurent W.) Derivations of triangular Banach algebras. **97m:46079**
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46M99 None of the above, but in this section

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Ioffe, Alexandre D. Non-smooth subdifferentials: their calculus and applications. (*see* **97a:00029**)
— (*with* Penot, Jean-Paul) Limiting sub-Hessians, limiting subjets and their calculus. (English summary) **97f:49019**
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Zou, Kai (*with* Li, Yi Quan) Weakly subdifferentiable regularity of locally Lipschitz functions. (Chinese. English and Chinese summaries)

46N20 Applications to differential and integral equations

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Antonevich, Anatoliĭ B. (*with* Lebedev, A. V.) ★ Functional-differential equations. I. C^*-theory. (English summary) **97e:46072**
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Baranovich, A. M. (*with* Daletskiĭ, Yuriĭ L'vovich) Some differential-geometric models in the class of formal operator power series. (Russian. English and Ukrainian summaries) **97j:46044**
Bukhgeĭm, A. L. *see* **Arbuzov, E. V., 97b:35189**
Chavent, G. (*with* Kunisch, Karl) On weakly nonlinear inverse problems. (English summary) **97b:35190**
Chung, Fan R. K. ★ Spectral graph theory. (English summary) **97k:58183**
Cianchi, Andrea On the L^q norm of functions having equidistributed gradients. **97a:26022**
Dahlke, Stephan (*with* DeVore, Ronald A.) Besov regularity for elliptic boundary value problems. (English summary) **97k:35047**
Daletskiĭ, Yuriĭ L'vovich *see* **Baranovich, A. M., 97j:46044**
Danilov, V. G. Letter to the editor: "A representation of the delta function via creation operators and Gaussian exponentials, and multiplicative fundamental solution asymptotics for some parabolic pseudodifferential equations" [Russian J. Math. Phys. **3** (1995), no. 1, 25–40; MR 96j:58165]. **97h:58162**
DeVore, Ronald A. *see* **Dahlke, Stephan, 97k:35047**
Egorov, Yuriĭ Vladimirovich (*with* Kondrat'ev, Vladimir Aleksandrovich) ★ On spectral theory of elliptic operators. (English summary) **97m:35189**
Guo, Ben Qi (*with* Babuška, Ivo M.) Regularity of the solutions for elliptic problems on nonsmooth domains in $\mathbf{R}^3$. I. Countably normed spaces on polyhedral domains. (English summary) **97k:35034**
Hedberg, Lars Inge *see* **Adams, David R., 97j:46024**
Immink, G. K. Multisummability and the Stokes phenomenon. (English summary) **97c:46052**
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Lions, Pierre-Louis (*with* Villani, Cédric) Régularité optimale de racines carrées. (English and French summaries) [Optimal regularity for square roots] **97c:35018**
Lumer, Günter Transitions singulières gouvernées par des équations de type parabolique. (English and French summaries) [Singular transitions governed by equations of parabolic type] **97c:35023**
Marino, Mario (*with* Maugeri, Antonino) Differentiability of weak solutions of nonlinear parabolic systems with quadratic growth. (English summary) **97m:35145**
Massopust, Peter R. Fractal functions and their applications. (English summary) **97m:28011**
Maugeri, Antonino *see* **Marino, Mario, 97m:35145**
Mitrea, Marius Boundary value problems and Hardy spaces associated to the Helmholtz equation in Lipschitz domains. (English summary) **97g:35027**
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Penot, Jean-Paul *see* **Ioffe, Alexandre D., 97f:49019**
Rhandi, Abdelaziz Positivity methods for dichotomy of linear skew-product flows on Hilbert spaces. (English summary) **97a:34157**
de Rijcke, Michiel ★ Semigroups, invariance and time-invariant linear systems. (Dutch summary) **97i:47092**
Roitberg, Ya. A. (*with* Sklyarets, A. V.) The Sobolev problem in the complete scale of Banach spaces. (Russian. English summary) **97i:35032**
— (*with* Sklyarets, A. V.) The Sobolev problem in a complete scale of Banach spaces. (Russian. English and Ukrainian summaries) **97k:35050**
Rossovskiĭ, L. E. Coercitivity of functional-differential equations. (Russian. Russian summary) **97b:35184**
Ryan, John Intrinsic Dirac operators in $\mathbf{C}^n$. **97b:30061**
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Tanabe, Hiroki ★ Functional analytic methods for partial differential equations. (English summary) **97i:35002**
Tolstonogov, A. A. (*with* Tolstonogov, D. A.) L_p-continuous extreme selectors of multifunctions with decomposable values: relaxation theorems. (English summary) **97m:54037**
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Tovmasyan, N. E. ★ Boundary value problems for partial differential equations and applications in electrodynamics. (English summary) **97c:35194**
Tychopoulos, E. Lorentz spaces and Lie groups. (English summary) **97a:35274**
Valette, Alain Can one hear the shape of a group? (English summary) **97i:22002**
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Wang, Lih-Chung Stability in Gromov-Shubin index theorem. (English summary) **97g:58164**
Yao, Fuyuan The operator $a(x)(d/dx)$ on Banach space. (English summary) **97f:47040**
Yao, Zhengan (*with* Zhou, Tieqiang) A proof for the time dependent form of div-curl lemma. (English and Chinese summaries)
Zemanian, Armen H. ★ Realizability theory for continuous linear systems. (English summary) **97a:93002**
Zhou, Tieqiang *see* **Yao, Zhengan**

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46N30 Applications in probability theory and statistics

Riccomagno, Eva Rational noncommutative formal power series and iterated integral representation of a class of Itô processes. (Italian summary) **97b:46091**
Thomas-Agnan, Christine Computing a family of reproducing kernels for statistical applications. (English summary) **97i:46136**

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Al-Khach, Rim. S. Espaces de Sobolev et régularité des temps locaux d'un processus strictement α-stable. (English and French summaries) [Sobolev spaces and regularity of local times of a strictly α-stable process] **97k:60201**
Benth, Fred Espen (*with* Øksendal, Bernt; Ubøe, Jan; Zhang, Tu Sheng) Wick products of complex valued random variables. (English summary) **97k:60173**
Brown, Leon (*with* Schreiber, Bertram M.) Stochastic continuity and approximation. (English summary) **97j:60090**
Chuprunov, A. N. Limit theorems for weighted and normalized sums of random elements in Banach spaces. I. (Russian) **97j:60009**
— Limit theorems for weighted and normalized sums of random elements in Banach spaces. II. (Russian) **97j:60010**
Fatalov, V. R. *see* **Piterbarg, V. I., 97e:60054**
Jonsson, Alf Brownian motion on fractals and function spaces. **97e:60137**
Kandelaki, N. P. *see* **Vakhaniya, N. N., 97f:60012**
Kondrat'ev, Yu. G. (*with* Leukert, Peter; Potthoff, Jürgen; Streit, Ludwig; Westerkamp, W.) Generalized functionals in Gaussian spaces: the characterization theorem revisited. (English summary) **97j:60070**
Kuo, Hui-Hsiung ★ White noise distribution theory. **97m:60056**
Leukert, Peter *see* **Kondrat'ev, Yu. G.; et al., 97j:60070**
Long, Rui Lin On martingale spaces and inequalities. **97e:60114**
Lozanov Crvenković, Zagorka (*with* Pilipović, Stevan) Gaussian Colombeau generalized random processes. (English summary) **97d:60076**
Misiewicz, Jolanta K. Sub-stable and pseudo-isotropic processes—connections with the geometry of sub-spaces of L_α-spaces. (English summary) **97k:60040a**
— Substable and pseudo-isotropic processes—connections with the geometry of subspaces of L_α-spaces. **97k:60040b**
Obata, Nobuaki Derivations on white noise functionals. **97m:46073**
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Pilipović, Stevan *see* **Lozanov Crvenković, Zagorka, 97d:60076**
Piterbarg, V. I. (*with* Fatalov, V. R.) The Laplace method for probability measures in Banach spaces. (Russian) **97e:60054**

Plachky, Detlef Four concepts in decision theory based on order completeness of L_1. (English summary) **97k:62010**
Potthoff, Jürgen *see* **Kondrat'ev, Yu. G.; et al., 97j:60070**
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Su, Zhonggen On the central limit theorem in product spaces. (English summary) **97b:60008**
Talagrand, Michel Majorizing measures: the generic chaining. (English summary) **97k:60097**
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Vakhaniya, N. N. (*with* Kandelaki, N. P.) Random vectors with values in complex Hilbert spaces. (Russian. Russian summary) **97f:60012**
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Zhang, Tu Sheng *see* **Benth, Fred Espen; et al., 97k:60173**

46N40 Applications in numerical analysis [see also 65Jxx]

Leonov, A. S. Functions in several variables of bounded variation in ill-posed problems. (Russian. Russian summary) **97k:46083**
(Ribits'ka, O. M.) *see* **Syavavko, M. S., 97k:46084**
Syavavko, M. S. ★ Інтегральні ланцюгові дроби. (Ukrainian. Ukrainian summary) [Integral continued fractions] **97k:46084**

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(Babuška, Ivo M.) *see* **Křížek, Michal, 97k:65002**
Crombez, G. Finding projections onto the intersection of convex sets in Hilbert spaces. (English summary) **97a:65057**
Hegland, Markus Variable Hilbert scales and their interpolation inequalities with applications to Tikhonov regularization. (English summary) **97a:65060**
Křížek, Michal (*with* Neittaanmäki, Pekka) ★ Mathematical and numerical modelling in electrical engineering. (English summary) **97k:65002**
Mycielski, Jan (*with* Świerczkowski, Stanisław) Uniform approximation with linear combinations of reproducing kernels. (English summary) **97i:46050**
Neittaanmäki, Pekka *see* **Křížek, Michal, 97k:65002**
Roch, Steffen (*with* Silbermann, Bernd) C^*-algebra techniques in numerical analysis. (English summary) **97j:65092**
Silbermann, Bernd *see* **Roch, Steffen, 97j:65092**
Świerczkowski, Stanisław *see* **Mycielski, Jan, 97i:46050**
Thomas, Anthony D. Conformal mapping of nonsmooth domains via the Kerzman-Stein integral equation. (English summary) **97h:46038**
Xie, Shu Sen A kind of optimal approximation in spaces with reproducing kernels and its applications. (Chinese. English and Chinese summaries) **97g:65121**

46N50 Applications in quantum physics

Accardi, Luigi Yang-Mills equations and Lévy-Laplacians. (English summary) **97c:46093**

Items with secondary classifications in 46N50

Accardi, Luigi (*with* Lu, Yun Gang) The Wigner semi-circle law in quantum electrodynamics. (English summary) **97k:81081**
Albeverio, Sergio (*with* Boutet de Monvel-Berthier, Anne-Marie; Brzeźniak, Zdzisław) Stationary phase method in infinite dimensions by finite-dimensional approximations: applications to the Schrödinger equation. (English summary) **97a:58187**
— Infinite-dimensional integrals in classical, stochastic and quantum nonlinear problems. (English summary) (*see* **97a:00029**)
— (*with* Khrennikov, A. Yu.) Representations of the Weyl group in spaces of square integrable functions with respect to p-adic valued Gaussian distributions. (English summary) **97j:22039**
Applebaum, David (*with* Brooks, Martin) Infinite series of quantum spectral stochastic integrals. (English summary) **97m:81019**
Araki, Huzihiro Soliton sector of the XY model. (English summary) **97j:82004**
Attal, Stéphane Non-commutative chaotic expansion of Hilbert-Schmidt operators on Fock space. (English summary) **97d:60092**
Baumgärtel, Hellmut ★ Operator algebraic methods in quantum field theory. (English summary) **97e:81085**
Benatti, Fabio (*with* Narnhofer, Heide; Uhlmann, Armin) Optimal decompositions of quantum states with respect to entropy. (English summary) **97j:82006**
Berezanskiĭ, Yu. M. A connection between the theory of hypergroups and white noise analysis. (English summary) **97i:46078**
Bhat, B. V. Rajarama (*with* Fagnola, Franco; Sinha, Kalyan B.) On quantum extensions of semigroups of Brownian motion on a half-line. (English summary) **97j:81177**
Boutet de Monvel-Berthier, Anne-Marie *see* **Albeverio, Sergio; et al., 97a:58187**
Brooks, Martin *see* **Applebaum, David, 97m:81019**
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Fagnola, Franco *see* **Bhat, B. V. Rajarama; et al., 97j:81177**
Fredenhagen, Klaus (*with* Gaberdiel, Matthias R.; Rüger, Stefan M.) Scattering states of plektons (particles with braid group statistics) in $(2+1)$-dimensional quantum field theory. (English summary) **97b:81065**
Gaberdiel, Matthias R. *see* **Fredenhagen, Klaus; et al., 97b:81065**
Herbut, Fedor More on the state-dependent implication in quantum mechanics. Addendum: "On state-dependent implication in quantum mechanics" [J. Phys. A **27** (1994), no. 22, 7503–7518; MR 95m:81019]. (English summary) **97a:81017**
Hirokawa, Masao An inverse problem for the rotating wave approximation on a partial $*$-algebra. **97i:81170**
Hofmann, Gerald Generalized free field-like U(1)-gauge theories within the Wightman framework. (English summary) **97j:81189**
Kholevo, A. S. Covariant quantum Markovian evolutions. (English summary) **97a:81103**
Khrennikov, A. Yu. The random Wiener-Feynman process on superspace. (Russian. Russian summary) **97f:58019**
— *see also* **Albeverio, Sergio, 97j:22039**
Kim, Bong Jin Feynman's operational calculus applied to multiple integrals. (English summary) **97k:28028**
Kisil', Vladimir V. Quantum probabilities and non-commutative Fourier transform on the Heisenberg group. **97b:81060**
— (*with* Ramírez de Arellano, Enrique) The Riesz-Clifford functional calculus for non-commuting operators and quantum field theory. (English summary) **97h:47009**
Klimek, Sławomir (*with* Leśniewski, Andrzej) Quantum Riemann surfaces for arbitrary Planck's constant. (English summary) **97a:58009**
Krée, P. Exponentielles et fonctionnelles de Schwinger en analyse gaussienne non commutative. (English and French summaries) [Exponentials and Schwinger functionals in noncommutative Gaussian analysis] **97e:81075**
Landsman, N. P. *see* **Wiedemann, U. A., 97e:81091**
Lerner, È. Yu. Feynman integrals of a p-adic argument in a momentum space. III. Renormalization. (Russian. English and Russian summaries) **97k:81101**
Leśniewski, Andrzej *see* **Klimek, Sławomir, 97a:58009**
Litvinov, E. V. (*with* Rebenko, A. L.; Shchepanyuk, G. V.) Wick theorems in non-Gaussian white noise calculus. (English summary) **97h:81089**
Löffelholz, Jürgen (*with* Morchio, G.; Strocchi, F.) Spectral stochastic processes arising in quantum mechanical models with a non-L^2 ground state. (English summary) **97f:81075**
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Nishimura, Hirokazu Empirical quantum mechanics. (English summary) **97d:81022**
Obata, Nobuaki Conditional expectation in classical and quantum white noise calculi. **97k:81084**
Palanques-Mestre, August Products of distributions in mathematical physics. (English summary) (*see* **97a:00029**)
Paneah, Boris Equivalent norms in some spaces of analytic functions and the uncertainty principle. (English summary) **97m:46034**
Peetre, Jaak (*with* Thangavelu, Sundaram; Wallin, Nils-Olof) Generalized Fock spaces, interpolation, multipliers, circle geometry. (English summary) **97d:46028**
Privault, Nicolas A different quantum stochastic calculus for the Poisson process. (English summary) **97d:60097**
Pták, Pavel States on orthomodular posets (recent results in noncommutative measure theory). **97h:81022**
Ramírez de Arellano, Enrique *see* **Kisil', Vladimir V., 97h:47009**
Rebenko, A. L. *see* **Litvinov, E. V.; et al., 97h:81089**
Rehren, Karl-Henning (*with* Stanev, Yassen S.; Todorov, Ivan T.) Characterizing invariants for local extensions of current algebras. (English summary) **97c:81176**
Rečan, Beloslav On the almost everywhere convergence of observables in some algebraic structures. (English summary) **97f:06022**
Rüger, Stefan M. *see* **Fredenhagen, Klaus; et al., 97b:81065**
Schreckenberg, S. Symmetry and history quantum theory: an analog of Wigner's theorem. (English summary) **97j:81029**
Shchepanyuk, G. V. *see* **Litvinov, E. V.; et al., 97h:81089**
Sinha, Kalyan B. *see* **Bhat, B. V. Rajarama; et al., 97j:81177**
Slater, Paul B. Quantum Fisher-Bures information of two-level systems and a three-level extension. (English summary) **97d:81016**
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Thangavelu, Sundaram *see* **Peetre, Jaak; et al., 97d:46028**
Thomas, Erik G. F. Path integrals on finite sets. (English summary) **97e:58023**
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Trapani, Camillo Quasi *-algebras of operators and their applications. (English summary) **97a:47070**
Uhlmann, Armin *see* **Benatti, Fabio; et al., 97j:82006**
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Wassermann, Antony J. Operator algebras and conformal field theory. **97e:81143**
Wiedemann, U. A. (*with* Landsman, N. P.) The Stückelberg-Kibble model as an example of quantized symplectic reduction. (English summary) **97e:81091**

46N55 Applications in statistical physics

Items with secondary classifications in 46N55

Gielerak, Roman (*with* Rebenko, A. L.) On the Poisson integrals representation in the classical statistical mechanics of continuous systems. (English summary) **97j:82003**
Hasegawa, Hiroshi H. *see* **Petz, Dénes, 97h:82049**
Laurence, Peter (*with* Stredulinsky, Edward) Topological decomposition of Sobolev functions and the localization of energy in ideal plasmas. (English and French summaries) **97m:46052**
Majewski, Adam W. (*with* Zegarliński, Bogusław) On quantum stochastic dynamics and noncommutative L_p spaces. (English summary) **97c:46080**
Petz, Dénes (*with* Hasegawa, Hiroshi H.) On the Riemannian metric of α-entropies of density matrices. (English summary) **97h:82049**
Rebenko, A. L. *see* **Gielerak, Roman, 97j:82003**
Richter, Susanne (*with* Werner, R. F.) Ergodicity of quantum cellular automata. (English summary) **97b:82069**
Stredulinsky, Edward *see* **Laurence, Peter, 97m:46052**
Werner, R. F. *see* **Richter, Susanne, 97b:82069**
Zegarliński, Bogusław *see* **Majewski, Adam W., 97c:46080**

46N60 Applications in biology and other sciences

Items with secondary classifications in 46N60

Beder, Jay H. *see* **Gomulkiewicz, Richard, 97e:92004**
Gomulkiewicz, Richard (*with* Beder, Jay H.) The selection gradient of an infinite-dimensional trait. (English summary) **97e:92004**

46N99 None of the above, but in this section

Items with secondary classifications in 46N99

Bliedtner, Jürgen (*with* Loeb, Peter A.) Generalized radial limits associated with representing measures. **97c:31016**

Clarke, Chris J. S. (*with* Vickers, J. A. G.; Wilson, Jonathan P.) Generalized functions and distributional curvature of cosmic strings. (English summary) **97g:83085**

(Kanemitsu, S.) *see* **Romanov, N. P., 97d:11138**

(Kiuchi, Isao) *see* **Romanov, N. P., 97d:11138**

Loeb, Peter A. *see* **Bliedtner, Jürgen, 97c:31016**

McCoy, Robert A. (*with* Todd, Aaron R.) Support spaces and $P(K)$-points in the Stone-Čech compactification of the integers. (English summary) **97c:46028**

Romanov, N. P. Hilbert spaces and number theory. (English summary) **97d:11138**

Todd, Aaron R. *see* **McCoy, Robert A., 97c:46028**

Vickers, J. A. G. *see* **Clarke, Chris J. S.; et al., 97g:83085**

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46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

Beloyiannis, A. *see* **Katsaras, A. K., 97m:46118**

Boussaf, Kamal (*with* Escassut, Alain) Absolute values on algebras $H(D)$. (English summary) **97b:46092**

De Grande-De Kimpe, N. (*with* Khrennikov, A. Yu.) The non-Archimedian Laplace transform. (English summary) **97a:46111**

Diarra, Bertin Algèbres de Hopf et fonctions presque périodiques ultramétriques. (English summary) [Ultrametric Hopf algebras and almost periodic functions] **97k:46085**

— Représentations linéaires presque périodiques ultramétriques. (English summary) [Ultrametric almost periodic linear representations] (*see* **97m:00021**)

Escassut, Alain ★ Analytic elements in p-adic analysis. **97e:46106**

— *see also* **Boussaf, Kamal, 97b:46092**

Huang, Zhiyuan *see* **Khrennikov, A. Yu., 97f:46120**

Kąkol, Jerzy The Mackey-Arens and Hahn-Banach theorems for spaces over valued fields. (English summary) **97c:46094**

— (*with* Perez-Garcia, Cristina; Schikhof, W. H.) Cardinality and Mackey topologies of non-Archimedean Banach and Fréchet spaces. (English summary) **97i:46137**

Katsaras, A. K. (*with* Beloyiannis, A.) On the topology of compactoid convergence in non-Archimedean spaces. (English summary) **97m:46118**

— Non-Archimedean Köthe spaces. (English summary) **97i:46138**

Khrennikov, A. Yu. (*with* Huang, Zhiyuan) A model for white noise analysis in p-adic number fields. (English summary) **97f:46120**

— *see also* **De Grande-De Kimpe, N., 97a:46111**

Kiyosawa, T. (*with* Schikhof, W. H.) Non-Archimedean Eberlein-Šmulian theory. (English summary) **97c:46095**

Perez-Garcia, Cristina *see* **Kąkol, Jerzy; et al., 97i:46137**

Pombo, Dinamérico P., Jr. Polynomials on locally K-convex spaces. (English summary) **97a:46112**

Qiu, Weidun On the best approximation in non-Archimedean normed linear spaces. (English summary) **97h:46126**

Schikhof, W. H. *see* **Kiyosawa, T., 97c:46095** *and* **Kąkol, Jerzy; et al., 97i:46137**

Turgunbaev, R. M. Spaces with an n-scalar product. (Russian. English and Uzbek summaries) **97h:46127**

Verdoodt, Ann Orthonormal bases for spaces of continuous and continuously differentiable functions defined on a subset of $\mathbf{Z}_p$. (English summary) **97k:46086**

Vinagre, Cybele T. M. Webbed Locally K-convex spaces. (English summary) **97h:46128**

Items with secondary classifications in 46S10

Alberverio, Sergio (*with* Khrennikov, A. Yu.) Representations of the Weyl group in spaces of square integrable functions with respect to p-adic valued Gaussian distributions. (English summary) **97j:22039**

Bordan, V. G. (*with* Ursul, M. I.) On hereditarily linearly compact algebras. (English summary) **97b:16037**

Boussaf, Kamal (*with* Escassut, Alain) Composition of analytic elements and quasi-invertibility. (English summary) **97g:12010**

Diarra, Bertin p-adic characters of the group of units of $\mathbf{C}_p$. (English summary) **97m:12009**

Escassut, Alain *see* **Boussaf, Kamal, 97g:12010**

Keller, Hans A. (*with* Ochsenius A., Herminia) Bounded operators on non-Archimedian orthomodular spaces. (English summary) **97e:47122**

Khrennikov, A. Yu. Signals with a p-adically uniformly distributed spectrum. (Russian)

— *see also* **Albeverio, Sergio, 97j:22039**

Kochubei, A. N. p-adic commutation relations. (English summary) **97j:81169**

Kuhlmann, Salma Valuation bases for extensions of valued vector spaces. (English summary) **97h:12015**

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46S20 Nonstandard functional analysis [see also 03H05]

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46S40 Fuzzy functional analysis [see also 04A72]

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46S50 Functional analysis in probabilistic metric linear spaces

Gong, Huai Yun *see* **Xiang, Shu-Huang; et al., 97b:46094**

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46S99 None of the above, but in this section

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47–XX Operator theory

47–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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Index:
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47–01 Instructional exposition (textbooks, tutorial papers, etc.)

Albrecht, David (*with* Duong, Xuan Thinh; McIntosh, Alan) Operator theory and harmonic analysis. **97e:47001**
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Duong, Xuan Thinh *see* **Albrecht, David; et al., 97e:47001**
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Lebedev, V. I. ★ An introduction to functional analysis in computational mathematics. (English summary) **97i:00001**
Limaye, Balmohan V. ★ Functional analysis. (English summary) **97k:46001**
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47–02 Research exposition (monographs, survey articles)

Ambrozie, Călin-Grigore (*with* Vasilescu, Florian-Horia) ★ Banach space complexes. (English summary) **97a:47001**
Amrein, Werner O. (*with* Boutet de Monvel-Berthier, Anne-Marie; Georgescu, Vladimir) ★ C_0-groups, commutator methods and spectral theory of N-body Hamiltonians. **97h:47001**
Antonevich, Anatoliĭ B. ★ Linear functional equations. Operator approach. (English summary) **97i:47001**
Boutet de Monvel-Berthier, Anne-Marie *see* **Amrein, Werner O.; et al., 97h:47001**
Dijksma, Aalt (*with* Langer, Heinz) Operator theory and ordinary differential operators. **97c:47001**
Georgescu, Vladimir *see* **Amrein, Werner O.; et al., 97h:47001**
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Gohberg, Israel (*with* Kaashoek, Marinus A.; van Schagen, Frederik) ★ Partially specified matrices and operators: classification, completion, applications. (English summary) **97i:47002**
González, Manuel Representations of the weak Calkin algebra. (English summary) **97j:47001**
Guo, Da Jun Some results on nonlinear functional analysis. (English summary) **97m:47001**
(Iacob, Andrei) *see* **Antonevich, Anatoliĭ B., 97i:47001**
Jitomirskaya, S. (*with* Simon, Barry) Operators with singular continuous spectrum. III. Almost periodic Schrödinger operators. (English summary) **97a:47003**
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Rosenblum, Marvin (*with* Rovnyak, James) ★ Hardy classes and operator theory. (English summary) **97j:47002**
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47–03 Historical (must also be assigned at least one classification number from Section 01)

Pinkus, Allan Spectral properties of totally positive kernels and matrices. (English summary) **97k:47003**

Items with secondary classifications in 47–03

Banach, Stefan ★ Théorie des opérations linéaires. (French) [Theory of linear operators] **97d:01035**
(Pták, Vlastimil) *see* **Vavřín, Zdeněk, 97i:01043**
Vavřín, Zdeněk Seventy years of Professor Vlastimil Pták: biography and interview. **97i:01043**

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47–06 Proceedings, conferences, collections, etc.

(Böttcher, Albrecht) *see* **Singular integral operators and related topics, 97d:47002**
(Demuth, Michael) *see* **Schrödinger operators, Markov semigroups, wavelet analysis, operator algebras, 97c:47002**
(Domínguez Benavides, Tomás) *see* **Recent advances on metric fixed point theory, 97i:47003**
(Gheondea, Aurelian) *see* **Topics in operator theory, operator algebras and applications, 97f:47001**
(Gohberg, Israel) *see* **Recent developments in operator theory and its applications, 97a:47007** *and* **Singular integral operators and related topics, 97d:47002**
(Lancaster, Peter) *see* **Recent developments in operator theory and its applications, 97a:47007**
(Schrohe, Elmar) *see* **Schrödinger operators, Markov semigroups, wavelet analysis, operator algebras, 97c:47002**
(Schulze, Bert-Wolfgang) *see* **Schrödinger operators, Markov semigroups, wavelet analysis, operator algebras, 97c:47002**
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(Sjöstrand, Johannes) *see* **Schrödinger operators, Markov semigroups, wavelet analysis, operator algebras, 97c:47002**
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Operator Theory ★ Topics in operator theory, operator algebras and applications. **97f:47001**
Recent advances on metric fixed point theory ★ Recent advances on metric fixed point theory. **97i:47003**
Recent developments in operator theory and its applications ★ Recent developments in operator theory and its applications. **97a:47007**
Schrödinger operators, Markov semigroups, wavelet analysis, operator algebras ★ Schrödinger operators, Markov semigroups, wavelet analysis, operator algebras. **97c:47002**
Seville ★ Recent advances on metric fixed point theory. **97i:47003**
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Tel Aviv ★ Singular integral operators and related topics. **97d:47002**
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Linear One-dimensional Singular Integral Equations ★ Singular integral operators and related topics. **97d:47002**
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(Censor, Yair) *see* **Recent developments in optimization theory and nonlinear analysis, 97j:00021**
(Crawy, Timothy R.) *see* **Workshop: Analysis and Geometry, 97a:00041**
(Dierolf, Susanne) *see* **Functional analysis, 97f:46001**
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(Gęba, Kazimierz) *see* **Topology in nonlinear analysis, 97k:00021**
(Goldstein, Jerome A.) *see* **Stochastic processes and functional analysis, 97i:00019**
(Górniewicz, Lech) *see* **Topology in nonlinear analysis, 97k:00021**
(Gretsky, Neil E.) *see* **Stochastic processes and functional analysis, 97i:00019**
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(Rao, Malempati Madhusudana) *see* **Stochastic processes and functional analysis, 97i:00019**
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(Uhl, J. J., Jr.) *see* **Stochastic processes and functional analysis, 97i:00019**

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Canberra ★ Instructional Workshop on Analysis and Geometry. Part III. **97a:00041**
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Modern Analysis and Probability ★ Stochastic processes and functional analysis. **97i:00019**
Contemporary Mathematics ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
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Lucca ★ Microlocal analysis and spectral theory. **97k:35002**
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American Mathematical Society/Israel Mathematical Union ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
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NATO Advanced Study Institute:
Microlocal Analysis and Spectral Theory ★ Microlocal analysis and spectral theory. **97k:35002**
Recent developments in optimization theory and nonlinear analysis ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Riverside, CA ★ Stochastic processes and functional analysis. **97i:00019**
Session:
Optimization and Nonlinear Analysis ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Spectral and scattering theory and related topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral and scattering theory and related topics] **97d:00031**
Stochastic processes and functional analysis ★ Stochastic processes and functional analysis. **97i:00019**
Structure of spaces of analytic and harmonic functions and the theory of operators on them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
Symposium:
Spectral and Scattering Theory and Related Topics ★ Supekutoru sanran riron to sono shūhen. (Japanese) [Spectral and scattering theory and related topics] **97d:00031**
Structure of Spaces of Analytic and Harmonic Functions and the Theory of Operators on Them ★ Kaiseki chōwa kansū kūkan no kōzō to sono ue no sayōso ron. (Japanese) [The structure of spaces of analytic and harmonic functions and the theory of operators on them] **97i:00016**
Topology in nonlinear analysis ★ Topology in nonlinear analysis. **97k:00021**
Trier ★ Functional analysis. **97f:46001**
Warsaw ★ Topology in nonlinear analysis. **97k:00021**
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47Axx General theory of linear operators

Pisier, Gilles A polynomially bounded operator on Hilbert space which is not similar to a contraction. (English summary) **97f:47002**

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Mennicken, Reinhard *see* **Adamyan, V. M.; et al., 97i:47036**
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47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

Bonet, José (*with* Ramanujan, M. S.) Two classes of operators between Fréchet spaces. (English summary) **97j:47003**
Chen, Guo Liang[1] (*with* Wei, Mu Sheng; Xue, Yifeng) Perturbation analysis of the least squares solution in Hilbert spaces. (English summary) **97i:47004**
Christensen, Ole Frames and pseudo-inverses. (English summary) **97c:47003**
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Nguyen Minh Tuan *see* **Nguyen Van Mau, 97h:47003**
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Aggour, M. M. *see* **Ghaleb, Fayed F. M., 97i:47068**
Ando, Tsuyoshi Quasi-orders on the positive cone of a C^*-algebra. (English summary) **97h:46092**
Baskakov, A. G. Spectral properties of some classes of linear operators. (Russian) **97b:47026**
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47A40 Scattering theory [see also 34L25, 35P25, 81Uxx]

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47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces

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47A80 Tensor products of operators [see also 46M05]

Lee, Sa Ge Block tensor product.

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Domański, Paweł (*with* Lindström, Mikael; Schlüchtermann, Georg) Grothendieck operators on tensor products. (English summary) **97j:46012**
Haagerup, Uffe (*with* Itoh, Takashi[1]) Grothendieck type norms for bilinear forms on C^*-algebras. (English summary) **97a:46070**
Itoh, Takashi[1] *see* **Haagerup, Uffe, 97a:46070**
Lindström, Mikael *see* **Domański, Paweł; et al., 97j:46012**
Livinskiĭ, V. A. Essential normality of some classes of operators in tensor products of Hilbert spaces. (English summary) **97i:47033**

Marcoux, Laurent W. Quasidiagonality and a generalized version of Berg's technique. (English summary) **97e:47025**
Schlüchtermann, Georg *see* **Domański, Paweł; et al., 97j:46012**

47A99 None of the above, but in this section

Du, Hong Ke *see* **Pei, Jun Ying**
Kubrusly, Carlos S. (*with* Vieira, Paulo César M.; Pinto, Denise O.) A decomposition for a class of contractions. (English summary) **97h:47017**
Lu, Dianchen *see* **Tian, Li Xin, 97a:47029**
Ma, Ji Pu *see* **Xu, Ben Long**
May, E. Lee, Jr. Real-linear (including semilinear) operators. (English summary) **97d:47029**
Pei, Jun Ying (*with* Du, Hong Ke) Some features of problems on completion of positive operators. (Chinese. English summary)
Pinto, Denise O. *see* **Kubrusly, Carlos S.; et al., 97h:47017**
Prasad, S. K. On separability of an operator.
Sakai, Makoto Strong convergence of infinite products of orthogonal projections in Hilbert space. (English summary) **97a:47028**
Tian, Li Xin (*with* Lu, Dianchen) The property of nonwandering operator. (Chinese. English and Chinese summaries) **97a:47029**
Vieira, Paulo César M. *see* **Kubrusly, Carlos S.; et al., 97h:47017**
Xu, Ben Long (*with* Ma, Ji Pu) Spectral characterization of operators of bounded rank on Banach spaces. (Chinese)

Items with secondary classifications in 47A99

Acosta Vigil, María Dolores (*with* Aguirre, Francisco J.; Payá-Albert, Rafael) A new sufficient condition for the denseness of norm attaining operators. (English summary) **97g:46010**
Aguirre, Francisco J. *see* **Acosta Vigil, María Dolores; et al., 97g:46010**
Alam, Rafikul (*with* Kulkarni, Rekha P.; Limaye, Balmohan V.) Boundedness of adjoint bases of approximate spectral subspaces and of associated block reduced resolvents. (English summary) **97h:65083**
Allan, Graham R. Sums of idempotents and a lemma of N. J. Kalton. (English summary) **97m:46074**
Aupetit, Bernard (*with* Mouton, Toit) Trace and determinant in Banach algebras. (English summary) **97i:46086**
Auslender, Alfred Closedness criteria for the image of a closed set by a linear operator. (English summary) **97j:47091**
Belishev, M. I. (*with* Kachalov, A. P.) An operator integral in the multidimensional inverse spectral problem. (Russian. English and Russian summaries) **97h:47070**
Berezanskiĭ, Yu. M. A connection between the theory of hypergroups and white noise analysis. (English summary) **97i:46078**
Blasco, Oscar On the area function for $H(\sigma_p)$, $1 \le p \le 2$. (English summary) **97h:46052**
Brešar, Matej (*with* Šemrl, Peter) Linear maps preserving the spectral radius. (English summary) **97i:47070**
Davidson, Kenneth R. (*with* Harrison, Kenneth J.; Mueller, U. A.) Rank decomposability in incident spaces. (English summary) **97b:15002**
Dragomir, Sever Silvestru (*with* Mond, B.) On Cauchy-Buniakowski-Schwarz's inequality for sequences of linear operators in Hilbert space. **97i:47025**
Gohberg, Israel (*with* Kaashoek, Marinus A.; Lerer, Leonid) Factorization of banded lower triangular infinite matrices. (English summary) **97h:15009**
Gong, Donggeng K-theoretic torsion invariants for finite von Neumann algebras. (English summary) **97m:46110**
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Kachalov, A. P. *see* **Belishev, M. I., 97h:47070**
Khatskevich, V. A. (*with* Zelenko, Leonid) The fractional-linear transformations of the operator ball and dichotomy of solutions to evolution equations. (English summary) **97m:47048**
Kulkarni, Rekha P. *see* **Alam, Rafikul; et al., 97h:65083**
Lasota, Andrzej (*with* Yorke, James A.) When the long-time behavior is independent of the initial density. (English summary) **97a:47043**
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Lerer, Leonid *see* **Gohberg, Israel; et al., 97h:15009**
Li, Guang Quan *see* **Tang, Wan Sheng; et al., 97e:47121**
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— Size estimates for eigenvalues of singular integral operators and Schrödinger operators and for derivatives of quasiconformal mappings. (English summary) **97a:47077a**
— Size estimates for eigenvectors of singular integral operators with $T1 = T^*1 = 0$. (English summary) **97a:47077c**
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Tang, Zhong Right-unitary transformation theory and applications. (English summary) **97e:81182**
Tret'yakov, D. V. Classification and properties of the spectrum of additive operators. (English summary) **97i:47005**
Virsik, George Right inverses of vector fields. (English summary) **97c:58012**
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Zagorodnyuk, A. V. Continuity and boundedness of polynomial operators in linear pseudonormed spaces. (Ukrainian. English summary) **97m:46008**
Zelenko, Leonid *see* **Khatskevich, V. A., 97m:47048**
Zheng, Pi E *see* **Tang, Wan Sheng; et al., 97e:47121**

47Bxx Special classes of linear operators

Acharya, K. (*with* Nath Sharma, Shree) On commutators of self-adjoint operators [MR 97g:47020]. (English summary) (*see* **97j:00027**)
Nath Sharma, Shree *see* **Acharya, K., (97j:00027)**

Items with secondary classifications in 47Bxx

Antonevich, Anatolii B. (*with* Lebedev, A. V.) ★ Functional-differential equations. I. C^*-theory. (English summary) **97e:46072**
Bukhvalov, A. V. (*with* Gutman, A. E.; Korotkov, V. B.; Kusraev, A. G.; Kutateladze, S. S.; Makarov, B. M.) ★ Vector lattices and integral operators. (English summary) **97a:46002**
Gutman, A. E. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Korotkov, V. B. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Kusraev, A. G. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Kutateladze, S. S. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Kuzhel, A. ★ Characteristic functions and models of nonselfadjoint operators. (English summary) **97e:47014**
Lebedev, A. V. *see* **Antonevich, Anatolii B., 97e:46072**
Makarov, B. M. *see* **Bukhvalov, A. V.; et al., 97a:46002**
Pisier, Gilles A polynomially bounded operator on Hilbert space which is not similar to a contraction. (English summary) **97f:47002**
Rosenblum, Marvin (*with* Rovnyak, James) ★ Hardy classes and operator theory. (English summary) **97j:47002**
Rovnyak, James *see* **Rosenblum, Marvin, 97j:47002**
(Stepanov, V. D.) *see* **Bukhvalov, A. V.; et al., 97a:46002**

47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators

Abd El-Kader, Zeinab *see* **Faried, Nashat, 97a:47030**
Bermúdez, Teresa (*with* Martinón, Antonio) On Neumann operators. (English summary) **97e:47028**
Faried, Nashat (*with* Abd El-Kader, Zeinab) Estimations of s-numbers and entropy numbers of an uncountable infinite matrix. (English summary) **97a:47030**
Martinón, Antonio *see* **Bermúdez, Teresa, 97e:47028**
Yang, Chang Sen Gel'fand numbers of operators with values in a Hilbert space. (Chinese. Chinese summary) **97j:47033**

Items with secondary classifications in 47B06

Agranovich, M. S. (*with* Amosov, B. A.) Estimates for s-numbers, and spectral asymptotics for integral operators of potential type on nonsmooth surfaces. (Russian. Russian summary) **97h:47049**
Aiena, Pietro (*with* Mbekhta, Mostafa) Characterization of some classes of operators by means of the Kato decomposition. (Italian summary) **97k:47009**
— (*with* González, Manuel) On the perturbation classes of semi-Fredholm and Fredholm operators. (English summary) **97f:47010**
Amosov, B. A. *see* **Agranovich, M. S., 97h:47049**
Dostanić, Milutin R. Exact asymptotic behavior of the singular values of integral operators with the kernel having singularity on the diagonal. (English summary) **97m:47066**
Edmunds, David E. (*with* Triebel, Hans) ★ Function spaces, entropy numbers, differential operators. **97h:46045**
González, Manuel *see* **Aiena, Pietro, 97f:47010**
Koliha, J. J. Isolated spectral points. (English summary) **97a:46057**
Mbekhta, Mostafa *see* **Aiena, Pietro, 97k:47009**
Parfënov, O. G. Asymptotics of Gel'fand and Bernstein widths of certain classes of analytic functions. (Russian) **97h:46036**
Richter, Christian (*with* Stephani, Irmtraud) Entropy and the approximation of bounded functions and operators. **97j:41028**
Stephani, Irmtraud *see* **Richter, Christian, 97j:41028**
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47B07 Operators defined by compactness properties

Cho, Min-Hyung *see* **Swartz, Charles; et al., 97j:47034**
Li, Ronglu *see* **Swartz, Charles; et al., 97j:47034**
Swartz, Charles (*with* Cho, Min-Hyung; Li, Ronglu) A nice property of operators defined on c_0. **97j:47034**
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Items with secondary classifications in 47B07

Aimar, Marie-Thérèse (*with* Intissar, Abdelkader; Paoli, Jean-Martin) Critères de complétude des vecteurs propres généralisés d'une classe d'opérateurs non auto-adjoints compacts ou à résolvante compacte et applications. (English summary) [Completeness criteria for the generalized eigenvectors of a class of compact or compact-resolvent nonselfadjoint operators, and applications] **97j:47030**
Aleman, Alexandru Subnormal operators with compact selfcommutator. (English summary) **97j:47036**

Bochenek, Jan A multiple linear eigenvalue problem for systems in a real ordered Banach space. (English summary) **97c:35143**
Bu, Qing Ying (*with* Fu, Yong Qiang) A theorem of Orlicz-Pettis type for compact operators. (Chinese. Chinese summary) **97b:46008**
Choa, Jun Soo (*with* Kim, Hong Oh) Compact composition operators on the Nevanlinna class. (English summary) **97c:47031**
Cwikel, Michael (*with* Kruglyak, N. Ya.; Mastyło, Mieczysław) On complex interpolation of compact operators. **97g:46096**
Erzakova, N. A. On measures of non-compactness in regular spaces. (English summary) **97d:47064**
Fried, David The flat-trace asymptotics of a uniform system of contractions. **97c:58124**
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Grzesiak, Maciej Extreme compact operators between real spaces of complex continuous functions. (English summary) **97j:47042**
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Kadets, Vladimir M. Some remarks concerning the Daugavet equation. (English summary) **97c:46015**
Kalton, Nigel J. (*with* Werner, Dirk) The M-ideal structure of some algebras of bounded linear operators. (English summary) **97i:46033**
Kim, Hong Oh *see* **Choa, Jun Soo, 97c:47031**
Kim, Hyoungsoon Interpolation theorem for unbounded operators. (English summary) **97a:47053**
Korotkov, V. B. On some algebraic properties of integral operators. (Russian. Russian summary) **97j:47045**
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Leung, Denny H. Some remarks on regular Banach spaces. **97d:46008**
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Smith, Wayne Stewart Geometric models for composition operators between Bergman and Hardy spaces. (English summary) **97m:47042**
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47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [see also 47D50]

Bhatia, Rajendra (*with* Šemrl, Peter) Distance between Hermitian operators in Schatten classes. (English summary) **97c:47020**
Šemrl, Peter *see* **Bhatia, Rajendra, 97c:47020**
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Anoussis, M. (*with* Katsoulis, Elias G.) Hilbert-Schmidt and finite rank operators in CSL algebras. (English summary) **97k:47040**
Araki, Huzihiro (*with* Sinha, Kalyan B.; Sunder, Viakalathur S.) On boundedness and $\|\cdot\|_p$ continuity of second quantisation. (English summary) **97j:81166**
Barnes, Bruce A. A note concerning the ideal of nuclear operators. (English summary) **97i:47094**
Chao, J.-A. (*with* Peng, Lizhong) Schatten classes and commutators on simple martingales. **97j:60077**
Dechevski, Lyubomir T. (*with* Persson, Lars-Erik) On sharpness, applications and generalizations of some Carleman type inequalities. (English summary) **97d:47004**
Domański, Paweł (*with* Lindström, Mikael; Schlüchtermann, Georg) Grothendieck operators on tensor products. (English summary) **97j:46012**
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Felton, Anthony J. (*with* Nashvadian-Bakhsh, B.; Rogosinski, H. P.) On generalised k-numerical radii of Schatten class operators. (English summary) **97f:47007**
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Jameson, G. J. O. 2-convexity and 2-concavity in Schatten ideals. **97d:46021**
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Lin, Peng (*with* Rochberg, Richard) Trace ideal criteria for Toeplitz and Hankel operators on the weighted Bergman spaces with exponential type weights. (English summary) **97d:47034**
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Mathé, Peter On the existence of unbiased Monte Carlo estimators. (English summary) **97e:65010**
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47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)

Baptiste, F. (*with* Lamb, Wilson; McGhee, D. F.) A spectral approach to distributional extensions of normal operators. (English summary) **97i:47032**
— (*with* Lamb, Wilson; McGhee, D. F.) A constructive approach to generalized integral transforms. (English summary) **97j:47035**
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— (*with* Takahashi, Katsutoshi) On operators with unitary ρ-dilations. (English summary) **97m:47010**
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Fujii, Masatoshi (*with* Furuta, Takayuki; Nakamoto, Ritsuo) Norm inequalities in the Corach-Porta-Recht theory and operator means. **97i:47026**
— (*with* Kamei, Eizaburo) A geometrical structure in the Furuta inequality. (English summary) **97a:47024a**
— (*with* Kamei, Eizaburo) Correction of: "A geometrical structure in the Furuta inequality". **97a:47024b**
— (*with* Furuta, Takayuki; Kamei, Eizaburo) Complements to the Furuta inequality. III. (English summary) **97m:47018**
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Laptev, A. (*with* Safarov, Yu. G.) A generalization of the Berezin-Lieb inequality. **97e:47023**
Li, Yuan-Chuan (*with* Shaw, Sen-Yen) An abstract ergodic theorem and some inequalities for operators on Banach spaces. (English summary) **97i:47015**
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Elaydi, Saber N. (*with* Kocic, Vlajko L.; Li, Jia[2]) Global stability of nonlinear delay difference equations. (English summary) **97f:39014**
Fedotov, Aleksandr A. *see* **Buslaev, V. S., 97e:81026**
Gol'dsheĭd, I. Ya. (*with* Sorets, Eugene) Lyapunov exponents of the Schrödinger equation with certain classes of ergodic potentials. (English summary) **97a:39018**
Kocic, Vlajko L. *see* **Elaydi, Saber N.; et al., 97f:39014**
Kuo, Hung-Ju (*with* Trudinger, Neil S.) Positive difference operators on general meshes. **97f:39023**
Li, Bing[1] Unconditional martingale difference operators. (Chinese. Chinese summary) **97e:60081**
Li, Jia[2] *see* **Elaydi, Saber N.; et al., 97f:39014**
Simon, Barry Bounded eigenfunctions and absolutely continuous spectra for one-dimensional Schrödinger operators. (English summary) **97a:34223**
Sorets, Eugene *see* **Gol'dsheĭd, I. Ya., 97a:39018**
Trudinger, Neil S. *see* **Kuo, Hung-Ju, 97f:39023**

47B40 Spectral operators, decomposable operators, well-bounded operators, etc.

Aggour, M. M. *see* **Ghaleb, Fayed F. M., 97i:47067** *and* **97i:47068**
Chen, Yunyun *see* **Cheng, Qingping, 97g:47026**
Cheng, Qingping (*with* Chen, Yunyun) Basis of type P and well-bounded operators. (English and Chinese summaries) **97g:47026**
Cho, Tae Geun (*with* Han, Hyuk) Weakly well-decomposable operators and automatic continuity. **97h:47030**
Doust, Ian (*with* Walden, Byron L.) Compact AC-operators. (English summary) **97a:47047**
Emamirad, H. *see* **deLaubenfels, Ralph; et al., 97m:47044**
Ghaleb, Fayed F. M. (*with* Aggour, M. M.) Restrictions and quotients of closed S-decomposable operators. (English summary) **97i:47067**
— (*with* Aggour, M. M.) A duality theorem for closed S-decomposable operators. (English summary) **97i:47068**
Han, Hyuk *see* **Cho, Tae Geun, 97h:47030**
Jazar, Mustapha *see* **deLaubenfels, Ralph; et al., 97m:47044**
Ko, Eungil Operators on a finite-dimensional space.
deLaubenfels, Ralph (*with* Emamirad, H.; Jazar, Mustapha) Regularized scalar operators. (English summary) **97m:47044**
Ricker, Werner J. Existence of Bade functionals for complete Boolean algebras of projections in Fréchet spaces. (English summary) **97j:47050**
Vieten, Peter Four characterizations of scalar-type operators with spectrum in a half-line. (English summary) **97m:47045**
Walden, Byron L. *see* **Doust, Ian, 97a:47047**

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Aggour, M. M. On the shift operators. (English summary) **97c:47029**
Bhatia, Rajendra (*with* Rosenthal, Peter) How and why to solve the operator equation $AX - XB = Y$. **97k:47016**
Boucekkine, M. (*with* Fong, Chekao) Duality in local spectral theory of operators and Nagy's spectral residuum. (English summary) **97m:47005**
Eschmeier, Jörg (*with* Laursen, Kjeld B.; Neumann, Michael M.) Multipliers with natural local spectra on commutative Banach algebras. (English summary) **97g:46066**
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Jazar, Mustapha *see* **deLaubenfels, Ralph, 97f:47014**
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— (*with* Vũ Quôc Phóng) Decomposable embeddings, complete trajectories, and invariant subspaces. (English summary) **97d:47007**
Laursen, Kjeld B. Essential spectra through local spectral theory. (English summary) **97g:47003**
— *see also* **Eschmeier, Jörg; et al., 97g:46066**
MacDonald, Gordon W. Decomposable weighted rotations on the unit circle. (English summary) **97j:47048**
Mennicken, Reinhard (*with* Shkalikov, A. A.) Spectral decomposition of symmetric operator matrices. (English summary) **97d:47012**
Neumann, Michael M. *see* **Eschmeier, Jörg; et al., 97g:46066**
Nevanlinna, Olavi Meromorphic resolvents and power bounded operators. (English summary) **97f:47006**
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Rosenthal, Peter *see* **Bhatia, Rajendra, 97k:47016**
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Zhang, Hai Tao The theory of Fredholm complexes on quotient Banach spaces. (Chinese. English and Chinese summaries) **97a:47018**
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47B44 Accretive operators, dissipative operators, etc.

Renardy, Michael Polar decomposition of positive operators and a problem of Crandall and Lions. (English summary) **97e:47051**
Vesentini, Edoardo Conservative operators. (English summary) **97a:47048**

Items with secondary classifications in 47B44

Arlinskiĭ, Yu. M. Maximal sectorial extensions and closed forms associated with them. (Russian. English and Ukrainian summaries) **97k:47022**

Cowling, Michael (*with* Doust, Ian; McIntosh, Alan; Yagi, Atsushi) Banach space operators with a bounded H^∞ functional calculus. (English summary) **97d:47023**
Das, Purna C. *see* **Kumar, Rajiv**, **97b:45008**
Doust, Ian *see* **Cowling, Michael; et al.**, **97d:47023**
Kumar, Rajiv (*with* Das, Purna C.) Application of m-accretive operator theory to an integrodifferential equation of population dynamics. (English summary) **97b:45008**
Lancien, Florence (*with* Lancien, Gilles; Le Merdy, Christian) Un calcul fonctionnel joint pour des opérateurs sectoriels. (English and French summaries) [Joint functional calculus for sectorial operators] **97e:47022**
Lancien, Gilles *see* **Lancien, Florence; et al.**, **97e:47022**
Le Merdy, Christian *see* **Lancien, Florence; et al.**, **97e:47022**
Li, Yuan-Chuan (*with* Shaw, Sen-Yen) An abstract ergodic theorem and some inequalities for operators on Banach spaces. (English summary) **97i:47015**
McIntosh, Alan *see* **Cowling, Michael; et al.**, **97d:47023**
Naboko, S. N. Uniqueness theorems for operator R-functions in the classes $R_0(\mathfrak{S}_p)$, $p > 1$. (Russian. Russian summary) **97e:47018**
Pavlov, B. S. Spectral analysis of a dissipative singular Schrödinger operator in terms of a functional model [MR 93c:47057]. (*see* **97b:35002**)
Shaw, Sen-Yen *see* **Li, Yuan-Chuan**, **97i:47015**
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47B47 Commutators, derivations, elementary operators, etc.

Bouali, S. (*with* Charles, Josette) Extension de la notion d'opérateur D-symétrique. II. (French summary) [Extension of the notion of D-symmetric operator. II] **97c:47040**
Charles, Josette *see* **Bouali, S.**, **97c:47040**
Chen, Yin Null spaces of generalized derivations. (Chinese. English and Chinese summaries) **97c:47041**
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Li, Jian Kui Elementary operators and completely positive linear maps. (English summary) **97k:47030**
Molnár, Lajos Locally inner derivations of standard operator algebras. (English summary) **97i:47069**
— The range of a Jordan $*$-derivation. (English summary) **97m:47046**
— Bijectivity of $*$-endomorphisms of $\mathscr{B}(H)$ and the unilateral shift. (English summary) **97m:47047**
— (*with* Šemrl, Peter) Local Jordan $*$-derivations of standard operator algebras. (English summary) **97d:47038**
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Acharya, K. (*with* Nath Sharma, Shree) On commutators of self-adjoint operators. (English summary) **97g:47020**
Agure, John Ogonji Certain properties of norms of derivations. (English summary) **97m:46107**
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Aupetit, Bernard (*with* Drissi, Driss) Local spectrum and subharmonicity. (English summary) **97j:47009**
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Bramanti, Marco Commutators of integral operators with positive kernels. (English summary) **97c:47059**
Brešar, Matej (*with* Šemrl, Peter) Spectral characterizations of central elements in Banach algebras. (English summary) **97d:46053**
Cabrera García, Miguel (*with* Martínez-Moreno, Juan) Inner derivations on ultraprime normed real algebras. (English summary) **97k:46051**
Carro, María J. (*with* Cerdà, Joan; Soria, Javier) Commutators and interpolation methods. **97e:46101**
— (*with* Cerdà, Joan; Soria, Javier) Higher order commutators in interpolation theory. (English summary) **97d:46094**
Cerdà, Joan *see* **Carro, María J.; et al.**, **97d:46094** *and* **97e:46101**
Coates, Keith J. Elementary operators and invariant subalgebras. (English summary) **97h:47041**
Donsig, Allan P. (*with* Forrest, Brian E.; Marcoux, Laurent W.) On derivations of semi-nest algebras. (English summary) **97h:47042**
Drăghia, Dumitru D. Continuity of derivations on Banach algebras. (English summary) **97k:46056**
Drissi, Driss *see* **Aupetit, Bernard**, **97j:47009**
Forrest, Brian E. *see* **Donsig, Allan P.; et al.**, **97h:47042**
Han, De Guang Continuity and linearity of additive derivations of nest algebras on Banach spaces. (English summary) **97g:47039**
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Kissin, Edward (*with* Loginov, A. I.; Shul'man, V. S.) Derivations of C^*-algebras and almost Hermitian representations on Π_k-spaces. (English summary) **97g:46090**
Korzyuk, V. I. The Friedrichs lemma for averaging operators with a variable step. (Russian. English and Russian summaries) **97j:47046**
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Li, Jian Kui Complete positivity of elementary operators on von Neumann algebra and the Calkin algebra. (English summary) **97i:46105**
Li, Shao Kuan Some problems about elementary operators. III. (Chinese. Chinese summary) **97e:47005**
Loginov, A. I. *see* **Kissin, Edward; et al.**, **97g:46090**
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Olin, Robert F. (*with* Yang, Li Ming) The commutant of multiplication by z on the closure of polynomials in $L^t(\mu)$. (English summary) **97m:47023**
Runde, Volker Intertwining operators over $L^1(G)$ for $G \in [PG] \cap [SIN]$. **97h:46080**
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Shul'man, V. S. Some remarks on the Fuglede-Weiss theorem. **97c:47021**
— *see also* **Kissin, Edward; et al.**, **97g:46090**
Soria, Javier *see* **Carro, María J.; et al.**, **97d:46094** *and* **97e:46101**
Stachó, László L. (*with* Zalar, Borut) On the norm of Jordan elementary operators in standard operator algebras. (English summary) **97k:47043**
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47B48 Operators on Banach algebras

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Curto, Raúl E. (*with* Hernández-Garciadiego, Carlos) A joint spectral characterization of primeness for C^*-algebras. (English summary) **97m:46091**
Guido, Daniele (*with* Isola, Tommaso; Scarlatti, Sergio) Non-symmetric Dirichlet forms on semifinite von Neumann algebras. (English summary) **97h:46105**
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Isola, Tommaso *see* **Guido, Daniele; et al.**, **97h:46105**
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Schelling, Andreas Convergence theorems for continued fractions in Banach spaces. (English summary) **97e:46059**

47B49 Transformers (= operators on spaces of operators)

Batty, Charles J. K. (*with* Molnár, Lajos) On topological reflexivity of the groups of $*$-automorphisms and surjective isometries of $\mathscr{B}(H)$. **97f:47034**
Brešar, Matej (*with* Šemrl, Peter) Linear maps preserving the spectral radius. (English summary) **97i:47070**
Molnár, Lajos Two characterisations of additive $*$-automorphisms of $B(H)$. (English summary) **97c:47042**
— *see also* **Batty, Charles J. K.**, **97f:47034**
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— Linear mappings that preserve operators annihilated by a polynomial. (English summary) **97i:47071**
— *see also* **Brešar, Matej**, **97i:47070**

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Atlasov, I. V. On an interpolation theorem for transformers. (Russian. Russian summary) **97b:46085**
Bratteli, Ola (*with* Jørgensen, Palle E. T.; Price, Geoffrey L.) Endomorphisms of $\mathscr{B}(\mathscr{H})$. (English summary) **97h:46107**
Cao, Guang Fu A note on characteristic equation of Toeplitz operators on the spaces A_k. **97j:47040**
Dodds, Peter G. (*with* Dodds, Theresa K.-Y.) Some aspects of the theory of symmetric operator spaces. (English summary) **97b:46078**
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Li, Jian Kui Complete positivity of elementary operators on von Neumann algebra and the Calkin algebra. (English summary) **97i:46105**
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Singh, Ajit Iqbal Completely positive hypergroup actions. (English summary) **97d:43001**

47B50 Operators on spaces with an indefinite metric

Ben-Artzi, A. (*with* Gohberg, Israel) On contractions in spaces with an indefinite metric: G-norms and spectral radii. (English summary) **97e:47043**
Bol'shakov, Yu. I. (*with* van der Mee, Cornelis V. M.; Ran, André C. M.; Reichstein, Boris; Rodman, Leiba) Polar decompositions in finite-dimensional indefinite scalar product spaces: special cases and applications. (English summary) **97e:47053**
— (*with* van der Mee, Cornelis V. M.; Ran, André C. M.; Reichstein, Boris; Rodman, Leiba) Errata for: "Polar decompositions in finite-dimensional indefinite scalar product spaces: special cases and applications" [in *Recent developments in operator theory and its applications (Winnipeg, MB, 1994)*, 61–94, Birkhäuser, Basel, 1996; MR 97e:47053].
Chen, Xiaoman *see* **Zhang, Jian Guo²**, **97k:47031**

Ćurgus, Branko (*with* Najman, Branko) Preservation of the range under perturbations of an operator. (English summary) **97j:47051**
Dijksma, Aalt (*with* Gheondea, Aurelian) Index formulae for subspaces of Krein spaces. (English summary) **97b:47072**
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Khatskevich, V. A. (*with* Zelenko, Leonid) The fractional-linear transformations of the operator ball and dichotomy of solutions to evolution equations. (English summary) **97m:47048**
Lancaster, Peter (*with* Markus, Alexander S.; Matsaev, Vladimir) Perturbations of G-selfadjoint operators and operator polynomials with real spectrum. (English summary) **97i:47073**
— (*with* Markus, Alexander S.; Matsaev, Vladimir) Definitizable G-unitary operators and their applications to operator polynomials. (English summary) **97i:47074**
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Zhang, Jian Guo[2] (*with* Chen, Xiaoman) Partial contractions in Pontryagin spaces Π_k. (English summary) **97k:47031**

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Alpay, Daniel (*with* Dijksma, Aalt; Rovnyak, James; de Snoo, Henk) Fonctions de Schur, colligations d'opérateurs, et espaces de Pontryagin à noyau reproduisant. (English and French summaries) [Schur functions, operator colligations, and reproducing-kernel Pontryagin spaces] **97d:47018**
— (*with* Bolotnikov, Vladimir; Dijksma, Aalt; de Snoo, Henk) On some operator colligations and associated reproducing kernel Pontryagin spaces. (English summary) **97a:47014**
— (*with* Dym, Harry) On a new class of realization formulas and their application. (English summary) **97f:47011**
Arocena, R. (*with* Azizov, T. Ya.; Dijksma, Aalt; Marcantognini, S. A. M.) On commutant lifting with finite defect. (English summary) **97d:47008**
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Bol'shakov, Yu. I. Linear operators that act in spaces with an indefinite scalar product. (Russian. Russian summary) **97i:15006**
Ćurgus, Branko (*with* Najman, Branko) Positive differential operators in Krein space $L^2(\mathbb{R})$. **97f:47045**
Deciu, Elena On the adjoint operator nodes on Krein spaces. (English and Romanian summaries) **97j:47019**
Dijksma, Aalt (*with* Langer, Heinz) Operator theory and ordinary differential operators. **97c:47001**
— *see also* **Alpay, Daniel; et al.**, **97a:47014**; **Arocena, R.; et al.**, **97d:47008** *and* **Alpay, Daniel; et al.**, **97d:47018**
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Khatskevich, V. A. (*with* Reich, Simeon; Shoĭkhet, D. M.) Fixed point theorems for holomorphic mappings and operator theory in indefinite metric spaces. (English summary) **97b:46062**
— (*with* Zelenko, Leonid) Indefinite metrics and dichotomy of solutions of linear differential equations in Hilbert spaces. (English summary) **97i:34086**
Kissin, Edward (*with* Loginov, A. I.; Shul'man, V. S.) Derivations of C^*-algebras and almost Hermitian representations on Π_k-spaces. (English summary) **97g:46090**
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Popov, I. Yu. Stokeslet and the operator extensions theory. (English summary) **97h:76034**
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Sayed, Ali H. (*with* Hassibi, Babak; Kailath, Thomas) Inertia conditions for the minimization of quadratic forms in indefinite metric spaces. (English summary) **97g:93035**
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Shondin, Yu. G. Perturbation of elliptic operators on thin sets of high codimension, and extension theory in a space with an indefinite metric. (Russian. English and Russian summaries) **97e:47084**
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Shul'man, V. S. *see* **Kissin, Edward; et al.**, **97g:46090**
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47B60 Operators on ordered spaces

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Huijsmans, C. B. (*with* Luxemburg, W. A. J.) On some aspects of the theory of lattice-ordered algebras. **97b:06015**
Leont'eva, T. F. (*with* Mosyagin, V. V.) F-seminormed spaces with a cone. (Russian. Russian summary) (*see* **97m:00019**)
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47C05 Operators in algebras

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47D06 One-parameter semigroups and linear evolution equations

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47G20 Integro-differential operators [see also 45J05, 45K05]

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47G30 Pseudodifferential operators [see also 35Sxx, 58G15]

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Vasilevskiĭ, N. L. (*with* Kisil', Vladimir V.; Ramírez de Arellano, Enrique; Trujillo Codorniú, Rafael A.) Toeplitz operators with discontinuous presymbols in the Fock space. (Russian) **97b:47022**
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47G99 None of the above, but in this section

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47Hxx Nonlinear operators {For global and geometric aspects, see 58–XX, especially 58Cxx.}

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Wu, Xian[3] (*with* Shen, Shikai) A further generalization of Yannelis-Prabhakar's continuous selection theorem and its applications. (English summary) **97a:47085**
Zhang, Shi Sheng (*with* Zhang, Xian[1]) On a class of new KKM theorem with applications. (Chinese. English and Chinese summaries) **97i:47107**
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Ben-El-Mechaiekh, H. (*with* Kryszewski, Wojciech) Equilibrium for perturbations of multifunctions by convex processes. (English summary) **97c:34025**
Chbani, Z. (*with* Riahi, Hassan) The range of sums of monotone operators and applications to Hammerstein inclusions and nonlinear complementarity problems. **97m:47070**
Chen, Yu Qing On accretive operators in cones of Banach spaces. **97i:47109**
— (*with* Wu, Dingping) On the local solvability of the sum of two maximal monotone mappings. (English and Chinese summaries) **97j:47084**
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Choulli, Mourad (*with* Deville, Robert) Local weak solutions for a multivalued evolution equation. **97h:34083**
Daniilidis, Aris (*with* Hadjisavvas, Nicolas) Existence theorems for vector variational inequalities. (English summary) **97i:47133**
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Lasiecka, Irena Wellposedness of second-order nonlinear abstract differential equations with multivalued boundary conditions: applications to von Kármán systems. (English summary) (*see* **97a:00029**)
Lee, Byung Soo (*with* Lee, Gue Myung; Kim, Do Sang) Generalized vector-valued variational inequalities and fuzzy extensions. **97m:47100**
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Osilike, M. O. Iterative construction of fixed points of multi-valued operators of the accretive type. (English summary) **97i:47122**
Papageorgiou, Nikolaos S. (*with* Shahzad, Naseer) Existence and strong relaxation theorems for nonlinear evolution inclusions. (English summary) **97g:34025**
— (*with* Papalini, Francesca) On the structure of the solution set of evolution inclusions with time-dependent subdifferentials. (English summary) **97h:34088**
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Park, Sehie Generalized Leray-Schauder principles for compact admissible multifunctions. **97a:47100**
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Rozpłoch-Nowakowska, Danuta A version of the Borsuks' antipodal theorem. (English summary) **97c:55005**
— *see also* **Górniewicz, Lech, (97k:00021)**
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Tolstonogov, A. A. Continuous selectors of multivalued mappings with nonconvex, nonclosed, decomposable values. (Russian. Russian summary) **97f:49031**
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Zhang, Cong Jun Topological degrees of set-valued A-proper mappings in locally convex spaces. (Chinese) **97e:47109**
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Zhang, Xian[1] Fixed point theorems of multivalued mappings in Banach space. (English and Chinese summaries) **97g:47060**
Zhivkov, N. V. Peano continua generating densely multivalued metric projections. (English summary) **97a:46017**

47H05 Monotone operators (with respect to duality)

Attouch, Hedy (*with* Baillon, Jean-Bernard; Théra, Michel) Variational sum of monotone operators. (English summary) **97a:47086**
Baillon, Jean-Bernard *see* **Attouch, Hedy; et al., 97a:47086**
Berinde, Vasile φ-monotone and φ-contractive operators in Hilbert spaces. (Romanian summary)
Chbani, Z. (*with* Riahi, Hassan) The range of sums of monotone operators and applications to Hammerstein inclusions and nonlinear complementarity problems. **97m:47070**
Chu, Liang-Ju On Brézis-Haraux approximation with applications. (English summary) **97m:47071**
— On the sum of monotone operators. **97g:47051**
Heisler, Martin Singlevaluedness of monotone operators on subspaces of GSG spaces. (English summary) **97g:47052**
Kartsatos, Athanassios G. An invariance of domain result for multi-valued maximal monotone operators whose domains do not necessarily contain any open sets. (English summary) **97g:47053**
Landes, Rüdiger Quasimonotone versus pseudomonotone. (English summary) **97i:47108**

Li, Gang[1] (*with* Ma, Ji Pu) An ergodic contraction theorem for non-Lipschitz topological semigroups over uniformly convex Banach spaces. (Chinese)
Ma, Ji Pu *see* **Li, Gang**[1]
Moudafi, Abdellatif Partial inverse operator and recession notion. (English summary) **97d:47062**
— On the stability of the parallel sum of maximal monotone operators. (English summary) **97b:47054**
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— *see also* **Chbani, Z., 97m:47070**
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Apreutesei, N. C. Continuous dependence on data for solutions of second order differential equations in Hilbert spaces. (English summary) **97e:34111**
Attouch, Hedy (*with* Baillon, Jean-Bernard; Théra, Michel) Weak solutions of evolution equations and variational sum of maximal monotone operators. (English summary) **97a:34160**
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47H06 Accretive operators, dissipative operators, etc.

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Kartsatos, Athanassios G. Sets in the ranges of nonlinear accretive operators in Banach spaces. (English summary) **97h:47053**
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Wang, Wei Min $(T + \lambda I)^{-1}$ is not necessarily a nonexpansive mapping. (Chinese. English and Chinese summaries)
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— Steepest descent approximations for accretive operator equations. **97b:47067**
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Faik, A. *see* **Benabdellah, H., 97h:34082**
Jung, Jong Soo (*with* Park, Jong Seo; Ahn, Jong Heon) Existence results for nonlinear functional evolution equations and compactness of solutions in $L^p([s, T]; X)$. (English summary) **97m:34158**
Kartsatos, Athanassios G. *see* **Ding, Zuo Hua, 97d:47072**
Kojo, Tomomi (*with* Tsutsumi, Masayoshi) Initial value problem for abstract differential equations of Sobolev type. (English summary) **97j:34078**
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Lee, Young S. (*with* Reich, Simeon) Convergence of accretive operators. (English summary) (*see* **97a:00029**)
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47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

Krause, Ulrich Positive nonlinear systems: some results and applications. (English summary) (*see* **97a:00029**)
Lakshmikantham, V. Monotone flows and fixed points for dynamic systems on time scales in a Banach space. (English summary) **97b:47055**

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Schumann, Rainer Regularity for a variational inequality with a pseudodifferential operator of negative order. (English summary) **97g:47047**
Tarafdar, Enayet Pareto solution of a cone variational inequality and Pareto optimality of a mapping. (English summary) (*see* **97a:00029**)
Webb, J. R. L. Solutions of semilinear equations in cones and wedges. (English summary) (*see* **97a:00029**)
Zhou, Ping Ultimately compact maps, mixed monotone maps, and coupled fixed points. (Chinese. English and Chinese summaries) **97i:47126**

47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A-proper mappings, K-set contractions, etc.)

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Kim, Tae-Hwa (*with* Park, Kyung Mee) Some results on metric fixed point theory and open problems. (English summary) **97m:47074**
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Przeradzki, Bogdan (*with* Wereński, Sławomir) Fixed point index for a new class of nonlinear noncompact operators. (English and Polish summaries) **97e:47094**
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Chen, Wen Hu (*with* Guo, Ai Zhu) Using homotopic mappings to study the existence of solutions to operator equations. (Chinese. English and Chinese summaries) **97g:47065**
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Dye, John M. (*with* Kuczumow, Tadeusz; Reich, Simeon) Random products of contractions. (English summary) (*see* **97a:00029**)
— (*with* Kuczumow, Tadeusz; Lin, Pei-Kee; Reich, Simeon) Convergence of unrestricted products of nonexpansive mappings in spaces with the Opial property. **97a:47093**
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— Asymptotic behavior for non-Lipschitzian semigroups in Banach spaces. **97a:47117**
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— (*with* Nishiura, Koji; Takahashi, Wataru) Nonlinear ergodic theorems for semigroups of nonexpansive mappings and left ideals. **97e:47117**
— (*with* Nishiura, Koji; Takahashi, Wataru) Nonlinear ergodic theorems for semigroups of nonexpansive mappings and left ideals. **97b:47074**
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Bhola, Praveen K. (*with* Sharma, P. L.) A fixed point theorem in strictly convex Banach space. (English summary)
— (*with* Sharma, P. L.) Fixed point theorem for Banach contraction mapping. (English summary)
— (*with* Sharma, P. L.) Fixed point theorems for three mapping in Banach space. (English summary)
— Some fixed point theorems related to Banach's contraction mapping. (English summary)
— (*with* Sharma, P. L.) Some fixed point theorems related to Banach's contraction mapping in complete metric space. (English summary)
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Dubey, B. N. (*with* Dubey, R. P.) Comments on fixed point theorem of Yeh. (English summary)

Dubey, R. P. Common fixed point theorem for three mappings in Banach space. (English summary)

— *see also* **Sharma, Reeta, 97a:47103** *and* **Dubey, B. N.**

Dye, John M. (*with* Kuczumow, Tadeusz; Lin, Pei-Kee; Reich, Simeon) Convergence of unrestricted products of nonexpansive mappings in spaces with the Opial property. **97a:47093**

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— (*with* Jadhav, Hemant Kumar) An application of fixed point theorem to approximation theory. (English summary) **97e:47098**

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Gillespie, A. (*with* Kannan, Rangachary) Iterative process for finding common fixed points of nonlinear mappings. **97b:47059**

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Jain, Dinesh Rani (*with* Chugh, Renu) A common fixed point theorem in 2-normed spaces. (English summary) **97k:47048**

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— Hammerstein equations with kernels of Riesz potential type. (Russian) (*see* **97g:00017**)
Mydlarczyk, Wojciech Remarks on: "The existence of nontrivial solutions for a class of Volterra equations with smooth kernels" [Math. Scand. **71** (1992), no. 2, 261–266; MR 94d:47063]. (English summary) **97m:45009**
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Dye, John M. (*with* Kuczumow, Tadeusz; Reich, Simeon) Random products of contractions. (English summary) (*see* **97a:00029**)
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Liu, Li Shan Some random approximations and random fixed point theorems for 1-set-contractive random operators. (English summary) **97d:47079**
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Yuan, Xian-Zhi (*with* Yu, Jian) Random fixed point theorems for nonself mappings. **97a:47120**
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Shahzad, Naseer Random fixed point theorems for various classes of 1-set-contractive maps in Banach spaces. (English summary) **97i:47112**
— *see also* **Beg, Ismat, 97m:41037**

47H99 None of the above, but in this section

Attouch, Hedy (*with* Théra, Michel) A duality proof of the Hille-Yosida theorem. **97j:47090**
Breckner, Wolfgang W. (*with* Trif, Tiberiu) On the singularities of certain families of nonlinear mappings. (English summary) **97m:47104**
Busheli, Peter J. Positive nonlinear operators associated with isoperimetric eigenvalue problems in algebra. (English summary) (*see* **97a:00029**)
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Ricceri, Biagio Applications of a theorem concerning sets with connected sections. **97i:47135**
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Trif, Tiberiu *see* **Breckner, Wolfgang W., 97m:47104**
Unoningsih, Sri Daru (*with* Płuciennik, Ryszard; Lee, Peng Yee) Boundedness of superposition operators on sequence spaces. (English summary) **97i:47136**
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You, Zhao Yong (*with* Wang, Chuan-Long) The full rank property of generalized monotone operators. (Chinese. English and Chinese summaries)

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Al-Nayef, A. A. (*with* Kloeden, Peter E.; Pokrovskiĭ, A. V.) Expansivity of nonsmooth functional-differential equations. **97m:34156**
Baranovich, A. M. (*with* Daletskiĭ, Yurīĭ L'vovich) Differential-geometric relations for a class of formal operator power series. (English summary) **97h:58012**
Căprău, C. *see* **Gâvruţa, P.; et al., 97f:39035**
Cherruault, Y. *see* **Seng, V.; et al., 97c:65105**
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Drewnowski, Lech On nonlinear isometries between Banach spaces. (English summary) **97m:58014**
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Huang, Wen Hua A generalized global extremum theorem. (Chinese. English and Chinese summaries)
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Lee, Sang Chul (*with* Lee, Byung Soo) Some generalizations of minimax inequality. (English summary) **97k:49013**
Li, Xinwei (*with* Yang, Da Chun) Boundedness of some sublinear operators on Herz spaces. **97j:42008**
Pokrovskiĭ, A. V. *see* **Al-Nayef, A. A.; et al., 97m:34156**
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Zhang, Shi Sheng Some problems and results in the study of nonlinear analysis. **97a:49016**

47Nxx Miscellaneous applications of operator theory [see also 46Nxx]

47N10 Applications in optimization, convex analysis, mathematical programming, economics

Auslender, Alfred Closedness criteria for the image of a closed set by a linear operator. (English summary) **97j:47091**
Tan, Kok-Keong (*with* Yuan, Xian-Zhi) Lower semicontinuity of multivalued mappings and equilibrium points. (English summary) (*see* **97a:00029**)
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Aubin, Jean-Pierre (*with* Frankowska, Halina) Set-valued analysis, viability theory and partial differential inclusions. (English and French summaries) (*see* **97a:00029**)
Barbu, Viorel Approximation Hamilton-Jacobi equations and suboptimal feedback controllers. **97j:49035**
Bianchi, Monica A class of generalized monotonic functions. (Italian. English and Italian summaries) **97a:90048**
— (*with* Schaible, Siegfried) Generalized monotone bifunctions and equilibrium problems. (English summary) **97h:49009**
Breckner, Wolfgang W. (*with* Trif, Tiberiu) On the singularities of certain families of nonlinear mappings. (English summary) **97m:47104**
Bruning, E. A. K. Minimization without weak lower semicontinuity. (English summary) **97a:49019**
Cao, Shi Yi *see* **Zhang, Shi Sheng; et al.**
Cho, Yeol Je *see* **Pathak, Hemant Kumar; et al.**, **97i:47123**; **Zhang, Shi Sheng; et al.**, **97i:49017** *and* **Pathak, Hemant Kumar; et al.**, **97k:90090**
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Ganguly, Ashok (*with* Wadhwa, Kamal Kumar) A generalization of a section theorem due to Itoh, Takahashi and Yanagi and a class of variational type inequalities. (English summary) **97h:49011**
George, R. *see* **Pathak, Hemant Kumar; et al.**, **97k:90090**
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Kimura, Yutaka An equilibrium theorem for set-valued maps without compactness and its applications. (English summary) **97i:47118**
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— *see also* **Kolokol'tsov, V. N.**
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— (*with* Tarafdar, Enayet) Non-compact Pareto equilibria for multiobjective games. (English summary) **97k:90098**
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— *see also* **Mehta, Ghanshyam B.; et al.**, **97i:90132**
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Zhang, Shi Sheng (*with* Wu, Xian^3; Wang, Da Cheng; Cao, Shi Yi) Existence problems for solutions to variational inequalities for monotone multivalued mappings on H-spaces. (Chinese. Chinese summary)
— (*with* Lee, Byung Soo; Wu, Xian^3; Cho, Yeol Je; Lee, Gue Myung) On the generalized quasi-variational inequality problems. (English summary) **97i:49017**
Zhu, Jinghao Nonlinear optimal control and the positive square roots of derivative operators.

47N20 Applications to differential and integral equations

Agoshkov, V. I. *see* **Marchuk, G. I.; et al.**, **97d:47082**
Bäumer, Boris (*with* Neubrander, Frank) Laplace transform methods for evolution equations. **97e:47119**
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Caillerie, Denis Étude générale d'un type de problèmes raides et de perturbation singulière. (English and French summaries) [General study of a kind of singular-stiff problem] **97i:47137**
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Goldstein, Jerome A. (*with* Shi, Gen Bao) Obstacle scattering for elastic waves. **97f:47060**
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Ivanov, Valentin Konstantinovich (*with* Mel'nikova, I. V.; Filinkov, A. I.) ★ Дифференциально-операторные уравнения и некорректные задачи. (Russian. English and Russian summaries) [Operator-differential equations and ill-posed problems] **97j:47092**

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Kornienko, V. V. On the spectra of strongly irregular equations. (Russian. Russian summary) **97k:47058**

Marchuk, G. I. (*with* Agoshkov, V. I.; Shutyaev, V. P.) ★ Сопряженные уравнения и методы возмущений в нелинейных задачах математической физики. (Russian. Russian summary) [Adjoint equations and perturbation methods in nonlinear problems of mathematical physics] **97d:47082**

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Ackleh, Azmy S. (*with* Fitzpatrick, Ben G.) Estimation of time dependent parameters in general parabolic evolution systems. (English summary) **97f:34040**

Adimy, Mostafa (*with* Ezzinbi, Khalil) Semi-groupes intégrés et équations différentielles à retard en dimension infinie. (English and French summaries) [Integrated semigroups and functional-differential equations with delay in infinite-dimensional spaces] **97i:47087**

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Ait Dads, E. (*with* Ezzinbi, Khalil; Fatajou, S.) Asymptotic weak almost periodicity and almost-orbit of semigroups of operators. (English summary) **97j:34076**

— (*with* Ezzinbi, Khalil) Almost periodic solution for some neutral nonlinear integral equation. **97k:45009**

Aizicovici, Sergiu (*with* Yan, Qing Yin) Existence results for a class of doubly nonlinear evolution equations. (English summary) **97h:34080**

— (*with* Barbu, Viorel) Periodic solutions for a second order semilinear Volterra equation. **97b:45001**

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Al-Naggar, I. (*with* Pearson, D. B.) Quadratic forms and solutions of the Schrödinger equation. (English summary) **97m:81008**

Al-Nayef, A. A. (*with* Kloeden, Peter E.; Pokrovskiĭ, A. V.) Expansivity of nonsmooth functional-differential equations. **97m:34156**

Alonso Mallo, I. (*with* Palencia de Lara, C.) Convolution operators associated with initial and boundary value problems. (Spanish) (*see* **97g:00019**)

Alpay, Daniel (*with* Gohberg, Israel; Sakhnovich, Lev A.) Inverse scattering problem for continuous transmission lines with rational reflection coefficient function. (English summary) **97f:34072**

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Anichini, Giuseppe (*with* Conti, Giuseppe) A direct approach to the existence of solutions of a boundary value problem for a second order differential system. (English summary) **97a:34047**

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Appell, Jürgen (*with* De Pascale, E.; Nguyễn Hồng Thái; Zabreĭko, Petr Petrovich) Nonlinear integral inclusions of Hammerstein type. **97f:45003**

— (*with* Vignoli, Alfonso; Zabreĭko, Petr Petrovich) Implicit function theorems and nonlinear integral equations. (English summary) **97m:47087**

Aronson, D. G. *see* **Huang, Ying Sue, 97j:39003**

Arov, D. Z. (*with* Gavrilyuk, I. P.; Makarov, Vladimir Leonidovich) Representation and approximation of solutions of initial value problems for differential equations in Hilbert space based on the Cayley transform. **97h:34074**

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Ahmed, Nasir Uddin (*with* Kerbal, S.) On approximate controllability for semi-linear systems. (English summary) **97j:93003**
Alpay, Daniel (*with* Dym, Harry) On a new class of realization formulas and their application. (English summary) **97f:47011**
Avdonin, S. A. (*with* Ivanov, Sergeĭ Alekseevich) ★ Families of exponentials. (English summary) **97b:93002**
Ball, Joseph A. (*with* Gohberg, Israel; Kaashoek, Marinus A.) A frequency response function for linear, time-varying systems. (English summary) **97h:93014**
— (*with* Gohberg, Israel; Kaashoek, Marinus A.) The band method and Grassmannian approach for completion and extension problems. (English summary) **97d:47021**
— (*with* Vinnikov, Victor) Zero-pole interpolation for meromorphic matrix functions on an algebraic curve and transfer functions of 2D systems. (English summary) **97m:30051**
Barbu, Viorel Optimal control of periodic systems. (English summary) **97c:49036**
Belishev, M. I. A canonical model of a dynamical system with boundary control in the inverse heat conduction problem. (Russian. Russian summary) **97a:93029**
— (*with* Ivanov, Sergeĭ Alekseevich) Boundary control and canonical realizations of a two-velocity dynamical system. (Russian. English and Russian summaries) **97a:93010**
— A conservative model of a dissipative dynamical system. (Russian. English and Russian summaries) **97m:35157**
Bounit, H. (*with* Hammouri, Hassan) Bounded feedback stabilization and global separation principle of distributed parameter systems. (English summary) **97m:93063**
Callier, Frank M. *see* **Grabowski, Piotr, 97d:93011**
Chen, Tongwen *see* **Qiu, Li, 97c:93041**
Cheremenskiĭ, Aleksandr G. (*with* Fomin, V. N.) ★ Operator approach to linear control systems. (English summary) **97e:93001**
Cockburn, Juan C. Bitangential structured interpolation theory. (English summary) **97j:47025**
Constantinescu, Tiberiu ★ Schur parameters, factorization and dilation problems. (English summary) **97g:47012**
Curtain, Ruth F. (*with* Ichikawa, Akira) The Nehari problem for infinite-dimensional linear systems of parabolic type. (English summary) **97i:47024**
(Del Moral, Pierre) *see* **Kolokol'tsov, V. N.**
Dym, Harry *see* **Alpay, Daniel, 97f:47011**
Feldmann, Sven (*with* Heinig, Georg) On the partial realization problem for singular systems. (English summary) (*see* **97e:00007**)
Fomin, V. N. *see* **Cheremenskiĭ, Aleksandr G., 97e:93001**
Fuhrmann, P. A. *see* **Hoffmann, J. W., 97h:93006**
Gaishun, I. V. Stability of two-parameter discrete systems with commuting operators. (Russian. Russian summary) **97k:93047**
Gohberg, Israel (*with* Kaashoek, Marinus A.; van Schagen, Frederik) ★ Partially specified matrices and operators: classification, completion, applications. (English summary) **97i:47002**
— *see also* **Ball, Joseph A.; et al., 97d:47021** *and* **97h:93014**
Gombani, Andrea On the Schmidt pairs of multivariable Hankel operators and robust control. (English summary) **97c:93039**
Grabowski, Piotr (*with* Callier, Frank M.) Admissible observation operators. Semigroup criteria of admissibility. (English summary) **97d:93011**
Gusyatnikov, P. B. Invariant subspaces with given properties. (Russian) **97b:15003**
Hammouri, Hassan *see* **Bounit, H., 97m:93063**
Harrison, Kenneth J. (*with* Ward, J. A.) Fractional covers for convolution products. (English summary) **97k:42022**
Heinig, Georg *see* **Feldmann, Sven, (97e:00007)**
Hirata, Kentaro *see* **Yamamoto, Yutaka; et al., 97k:93018**
Hoffmann, J. W. (*with* Fuhrmann, P. A.) On balanced realizations of bounded real and positive real functions. (English summary) **97h:93006**
Ichikawa, Akira *see* **Curtain, Ruth F., 97i:47024**
Ivanov, Sergeĭ Alekseevich *see* **Belishev, M. I., 97a:93010** *and* **Avdonin, S. A., 97b:93002**
Jacob, Birgit Destabilization of infinite-dimensional time-varying systems via dynamical output feedback. (English summary) **97e:93031**
Jeong, Jin-Mun *see* **Park, Jong Yeoul, 97a:93013**
Kaashoek, Marinus A. (*with* van der Mee, Cornelis V. M.; Ran, André C. M.) Weighting operator patterns of Pritchard-Salamon realizations. (English summary) **97k:93012**
— *see also* **Ball, Joseph A.; et al., 97d:47021**; **97h:93014** *and* **Gohberg, Israel; et al., 97i:47002**
Karcanias, Nicos Geometric properties, invariants, and the Toeplitz structure of minimal bases of rational vector spaces. (English summary) **97e:46104**
Kerbal, S. *see* **Ahmed, Nasir Uddin, 97j:93003**
Kolokol'tsov, V. N. (*with* Maslov, V. P.) ★ Idempotent analysis and its applications.
— *see also* **Maslov, V. P., 97d:49031**
Kuiper, C. R. *see* **Zwart, H. J., 97b:93024**
Lancaster, Peter (*with* Rodman, Leiba) ★ Algebraic Riccati equations. **97b:93003**
Maslov, V. P. (*with* Kolokol'tsov, V. N.) ★ Идемпотентный анализ и его применение в оптимальном управлении. (Russian. English and Russian summaries) [Idempotent analysis and its application in optimal control] **97d:49031**
— *see also* **Kolokol'tsov, V. N.**
van der Mee, Cornelis V. M. *see* **Kaashoek, Marinus A.; et al., 97k:93012**
Mu, Li Min Optimal control of systems governed by operator equations in a general measure space. (Chinese. English and Chinese summaries)
Naito, Koichiro Periodic stability and reachability of nonlinear parabolic equations under boundary periodic perturbations. (English summary) (*see* **97a:00029**)
(Nazaikinskiĭ, V. E.) *see* **Kolokol'tsov, V. N.**
Ober, Raimund J. System-theoretic aspects of completely symmetric systems. (English summary) **97g:93048**
— (*with* Wu, Yuanyin) Infinite-dimensional continuous-time linear systems: stability and structure analysis. (English summary) **97d:93077**
Park, Jong Yeoul (*with* Jeong, Jin-Mun) Supplement to the paper: "Retarded functional-differential equations with L^1-valued controller" [Funkcial. Ekvac. **36** (1993), no. 1, 71–93; MR 94h:93012] by Jeong. **97a:93013**
Peller, V. V. (*with* Young, Nicholas J.) Construction of superoptimal approximants. (English summary) **97c:47017**
— (*with* Young, Nicholas J.) Continuity properties of best analytic approximation. (English summary) **97m:47031**
Qiu, Li (*with* Chen, Tongwen) Contractive completion of block matrices and its application to $\mathscr{H}_\infty$ control of periodic systems. (English summary) **97c:93041**
Ran, André C. M. *see* **Kaashoek, Marinus A.; et al., 97k:93012**
Razgulin, A. V. Application of the projection-difference method in observation and control problems for a Schrödinger-type equation. (Russian. Russian summary) **97b:93051**
de Rijcke, Michiel ★ Semigroups, invariance and time-invariant linear systems. (Dutch summary) **97i:47092**
Rodman, Leiba *see* **Lancaster, Peter, 97b:93003**
Rozenvasser, E. N. Computation of the L_2-norm for linear periodic impulse operators. (Russian) **97m:93052**
Sallet, Gauthier *see* **Xu, Cheng-Zhong, 97b:93042**
van Schagen, Frederik *see* **Gohberg, Israel; et al., 97i:47002**
Sivergina, I. F. Invertibility and observability of evolution systems. (Russian) **97k:93010**
Skrzypczyk, Jerzy Accuracy analysis of statistical linearization methods applied to nonlinear dynamical systems. (English summary) **97k:45005**
Tannenbaum, Allen *see* **Yamamoto, Yutaka; et al., 97k:93018**
Triggiani, Roberto An optimal control problem with unbounded control operator and unbounded observation operator where the algebraic Riccati equation is satisfied as a Lyapunov equation. (English summary) **97m:93045**
Vinnikov, Victor *see* **Ball, Joseph A., 97m:30051**
Vũ Ngọc Phát Weak asymptotic stabilizability of discrete-time systems given by set-valued operators. (English summary) **97f:93040**
Ward, J. A. *see* **Harrison, Kenneth J., 97k:42022**
Wu, Yuanyin *see* **Ober, Raimund J., 97d:93077**
Xu, Cheng-Zhong (*with* Sallet, Gauthier) On spectrum and Riesz basis assignment of infinite-dimensional linear systems by bounded linear feedbacks. (English summary) **97b:93042**
Yamamoto, Yutaka (*with* Hirata, Kentaro; Tannenbaum, Allen) Some remarks on Hamiltonians and the infinite-dimensional one block H^∞ problem. (English summary) **97k:93018**
Young, Nicholas J. *see* **Peller, V. V., 97c:47017** *and* **97m:47031**
Zemanian, Armen H. ★ Realizability theory for continuous linear systems. (English summary) **97a:93002**
Zwart, H. J. (*with* Kuiper, C. R.) Relation between invariant subspaces of the Hamiltonian and the algebraic Riccati equation. (English summary) **97b:93024**

47N99 None of the above, but in this section

Items with secondary classifications in 47N99

Brokate, Martin (*with* Dreßler, Klaus; Krejčí, Pavel) The Mróz model: a hysteresis operator for rate-independent plasticity. (English summary) (*see* **97a:00029**)
Castro, Glaysar (*with* Seghier, Abdellatif) Schur-Szegő coefficients for positive definite Hermitian forms and orthogonal polynomials. (English and French summaries) **97b:42038**
Danos, Vincent (*with* Regnier, L.) Proof-nets and the Hilbert space. (English summary) **97a:03063**
Dreßler, Klaus *see* **Brokate, Martin; et al., (97a:00029)**
Gladwell, G. M. L. *see* **Lebedev, L. P.; et al., 97d:47001**
Krejčí, Pavel *see* **Brokate, Martin; et al., (97a:00029)**
Lebedev, L. P. (*with* Vorovich, I. I.; Gladwell, G. M. L.) ★ Functional analysis. (English summary) **97d:47001**
Regnier, L. *see* **Danos, Vincent, 97a:03063**
Seghier, Abdellatif *see* **Castro, Glaysar, 97b:42038**
Vorovich, I. I. *see* **Lebedev, L. P.; et al., 97d:47001**

47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

Gupta, Sunil *see* **Komal, B. S., 97e:47123**
Keller, Hans A. (*with* Ochsenius A., Herminia) Spectral decompositions of operators on non-Archimedean orthomodular spaces. (English summary) **97m:47106**
— (*with* Ochsenius A., Herminia) Bounded operators on non-Archimedian orthomodular spaces. (English summary) **97e:47122**
Kochubei, A. N. On the asymptotics of p-adic Green functions. (Russian) **97f:47061**
Komal, B. S. (*with* Gupta, Sunil) Composition operators on the space of entire sequences over non-Archimedean valued fields. (English summary) **97e:47123**
Ochsenius A., Herminia *see* **Keller, Hans A., 97e:47122** *and* **97m:47106**

Items with secondary classifications in 47S10

Araujo, Jesús (*with* Beckenstein, Edward; Narici, Lawrence) When is a separating map biseparating? **97f:47026**
Beckenstein, Edward *see* **Araujo, Jesús; et al., 97f:47026**

De Grande-De Kimpe, N. (*with* Khrennikov, A. Yu.) The non-Archimedian Laplace transform. (English summary) **97a:46111**
Khrennikov, A. Yu. *see* **De Grande-De Kimpe, N., 97a:46111**
Kochubei, A. N. p-adic commutation relations. (English summary) **97j:81169**
Narici, Lawrence *see* **Araujo, Jesús; et al., 97f:47026**

47S20 Nonstandard operator theory [see also 03H05]

Luxemburg, W. A. J. Near-standard compact internal linear operators. **97e:47124**

Items with secondary classifications in 47S20

Albeverio, Sergio (*with* Guido, Daniele; Ponosov, A.; Scarlatti, Sergio) Singular traces and compact operators. (English summary) **97j:46063**
Feneyrol-Perrin, Yvette Discrete Fredholm's equations. **97h:45001**
Guido, Daniele *see* **Albeverio, Sergio; et al., 97j:46063**
Khamsi, Mohamed Amine Nonstandard methods in metric fixed point theory. (English summary) **97f:47054**
Ponosov, A. *see* **Albeverio, Sergio; et al., 97j:46063**
Robert, Alain M. Functional analysis and NSA. **97k:46087**
Scarlatti, Sergio *see* **Albeverio, Sergio; et al., 97j:46063**

47S40 Fuzzy operator theory [see also 04A72]

Dang, Fa Ning *see* **Guo, Shuang Bing, 97a:47121**
Guo, Shuang Bing (*with* Dang, Fa Ning) Bounded linear operators in fuzzy normed linear spaces. (Chinese. English and Chinese summaries) **97a:47121**

Items with secondary classifications in 47S40

Kim, Do Sang *see* **Lee, Byung Soo; et al., 97m:47100**
Kohli, J. K. (*with* Kumar, Rajesh[1]) Linear mappings, fuzzy linear spaces, fuzzy inner product spaces and fuzzy co-inner product spaces. (English summary) **97j:46081**
Kumar, Rajesh[1] *see* **Kohli, J. K., 97j:46081**
Lee, Byung Soo (*with* Lee, Gue Myung; Kim, Do Sang) Generalized vector-valued variational inequalities and fuzzy extensions. **97m:47100**
Lee, Gue Myung *see* **Lee, Byung Soo; et al., 97m:47100**

47S50 Operator theory in probabilistic metric linear spaces

Guo, Tie Xin Module homomorphisms on random normed modules. (English summary) **97m:47107**

Items with secondary classifications in 47S50

Fang, Jin Xuan (Φ, Δ)-type probabilistic contractor and solutions for nonlinear operator equations in Menger PN-spaces. (Chinese. English and Chinese summaries) **97m:47088**
Luo, Qun Spectral theorems for a class of operators defined on complex random inner product modules. (Chinese. English and Chinese summaries) **97e:47003**
Miheț, Dorel A fixed point theorem for mappings with contractive iterate in H-spaces. (English summary) **97c:47065**
— On the contraction principle in Menger and non-Archimedean Menger spaces. (English summary)
Rhoades, B. E. A general fixed point theorem for multivalued mappings in probabilistic metric spaces. (English summary) **97e:47103**
Sahu, D. R. *see* **Sharma, Birendra Kumar, 97c:54038**
Sharma, Birendra Kumar (*with* Sahu, D. R.) 2-compatibility and its applications. (English summary) **97c:54038**
Wang, Fan *see* **Zhang, Shi Sheng, 97d:47080**
Zhang, Shi Sheng (*with* Wang, Fan) Generalized probabilistic contractor couples and solutions to nonlinear equations in probabilistic normed spaces. (Chinese. Chinese summary) **97d:47080**

47S99 None of the above, but in this section

Items with secondary classifications in 47S99

Kusraev, A. G. Dominated operators. III. (English summary) **97h:47033a**
— Dominated operators. IV. (English summary) **97h:47033b**

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93–XX]

49–01 Instructional exposition (textbooks, tutorial papers, etc.)

Wan, Frederic Y. M. ★ Introduction to the calculus of variations and its applications. (English summary) **97a:49001**

Items with secondary classifications in 49–01

Arguchintsev, A. V. ★ Методы оптимизации. Часть 2. (Russian. Russian summary) [Optimization methods. Part 2]
Jahn, Johannes ★ Introduction to the theory of nonlinear optimization. (English summary) **97i:90001**
Sundaram, Rangarajan K. ★ A first course in optimization theory. (English summary) **97g:90002**

Items listed otherwise than by author

Problems:
Optimization methods *see* **Arguchintsev, A. V.**

49–02 Research exposition (monographs, survey articles)

De Giorgi, Ennio Motions of partitions. (Italian. English summary) **97i:49001**
Dem'yanov, Vladimir F. (*with* Stavroulakis, Georgios E.; Polyakova, L. N.; Panagiotopoulos, Panagiotis D.) ★ Quasidifferentiability and nonsmooth modelling in mechanics, engineering and economics. (English summary) **97h:49001**
Goeleven, Daniel ★ Noncoercive variational problems and related results. (English summary) **97k:49001**
Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape, material and topology design. (English summary) **97k:49002**
Ishii, Hitoshi Viscosity solutions of nonlinear partial differential equations [translation of Sūgaku **46** (1994), no. 2, 144–157; MR 95j:49002]. (*see* **97g:00026**)
Kolmanovskiĭ, V. B. (*with* Shaĭkhet, L. E.) ★ Control of systems with aftereffect. (English summary)
(Kotov, V. N.) *see* **Kolmanovskiĭ, V. B.**
Krotov, V. F. ★ Global methods in optimal control theory. (English summary) **97a:49002**
Neittaanmäki, Pekka *see* **Haslinger, J., 97k:49002**
Panagiotopoulos, Panagiotis D. *see* **Dem'yanov, Vladimir F.; et al., 97h:49001**
Polyakova, L. N. *see* **Dem'yanov, Vladimir F.; et al., 97h:49001**
Rockafellar, R. Tyrrell ★ Convex analysis. (English summary) **97m:49001**
Shaĭkhet, L. E. *see* **Kolmanovskiĭ, V. B.**
Srochko, V. A. ★ Вариационный принцип максимума и методы линеаризации в задачах оптимального управления. (Russian. Russian summary) [The variational maximum principle and linearization methods in optimal control problems] **97b:49001**
Stavroulakis, Georgios E. *see* **Dem'yanov, Vladimir F.; et al., 97h:49001**

Items with secondary classifications in 49–02

Afanas'ev, V. N. (*with* Kolmanovskiĭ, V. B.; Nosov, V. R.) ★ Mathematical theory of control systems design. (English summary) **97i:93001**
Bressan, Alberto Impulsive control systems. **97m:49006**
(Del Moral, Pierre) *see* **Kolokol'tsov, V. N.**
Dontchev, Asen L. Discrete approximations in optimal control. (English summary) **97h:49043**
Giorgi, Giorgio (*with* Komlósi, Sándor) Dini derivatives in optimization. III. (English and Italian summaries) **97m:49014**
Golshtein, E. G. (*with* Tretyakov, N. V.) ★ Modified Lagrangians and monotone maps in optimization. (English summary) **97a:90001**
Kolmanovskiĭ, V. B. *see* **Afanas'ev, V. N.; et al., 97i:93001**
Kolokol'tsov, V. N. (*with* Maslov, V. P.) ★ Idempotent analysis and its applications.
— *see also* **Maslov, V. P., 97d:49031**
Komlósi, Sándor *see* **Giorgi, Giorgio, 97m:49014**
Luo, Zhi-Quan (*with* Pang, Jong-Shi; Ralph, Daniel) ★ Mathematical programs with equilibrium constraints. (English summary) **97j:90002**
Maslov, V. P. (*with* Kolokol'tsov, V. N.) ★ Идемпотентный анализ и его применение в оптимальном управлении. (Russian. English and Russian summaries) [Idempotent analysis and its application in optimal control] **97d:49031**
— *see also* **Kolokol'tsov, V. N.**
(Nazalkinskiĭ, V. E.) *see* **Kolokol'tsov, V. N.**
Nosov, V. R. *see* **Afanas'ev, V. N.; et al., 97i:93001**
Øksendal, Bernt (*with* Szabó, Péter[3]) The stochastic maximum principle—a brief survey and an application. (English summary) **97d:49030**
Pang, Jong-Shi *see* **Luo, Zhi-Quan; et al., 97j:90002**
Ralph, Daniel *see* **Luo, Zhi-Quan; et al., 97j:90002**
Revalski, J. P. Various aspects of well-posedness of optimization problems. **97f:49014**
Ross, Marty Fundamental constructions in geometric measure theory. **97g:28008**
Szabó, Péter[3] *see* **Øksendal, Bernt, 97d:49030**
Tretyakov, N. V. *see* **Golshtein, E. G., 97a:90001**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 49–03

Fichera, Gaetano Three battles lost by three great Italian mathematicians. (Italian) **97c:01028**
Fraser, Craig G. Jacobi's result (1837) in the calculus of variations and its reformulation by Otto Hesse (1857). A study in the changing interpretation of mathematical theorems. **97m:01041**
Hecht, Hartmut Principle of least action: methodological inversion of dynamics. **97f:01014**
(Klötzler, Rolf) *see* **Pickenhain, S.**
Kripfganz, A. *see* **Pickenhain, S.**
Pickenhain, S. (*with* Kripfganz, A.) In celebration of Prof. Dr. Rolf Klötzler 65th birthday.

Items listed otherwise than by author

Birthday:
Klötzler, Rolf *see* **Pickenhain, S.**

49–04 Explicit machine computation and programs (not the theory of computation or programming)

Zhu, Fang Sheng A parallel algorithm and software for linear-quadratic optimal control. (Chinese. English and Chinese summaries)

Items with secondary classifications in 49–04

Fei, Pu Sheng *see* **Gong, Liu Tang**
Gong, Liu Tang (*with* Fei, Pu Sheng) Parallel implementation of the augmented Lagrange multiplier algorithm for PDE control problems. (Chinese. English and Chinese summaries)

49–06 Proceedings, conferences, collections, etc.

(Bouchitté, Guy) *see* **Calculus of variations, homogenization and continuum mechanics, 97g:49001**
(Buttazzo, Giuseppe) *see* **Calculus of variations, homogenization and continuum mechanics, 97g:49001**
(Giannessi, Franco) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 97a:49003**
(Mangeri, Antonino) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 97a:49003**
(Mordukhovich, Boris S.) *see* **Nonsmooth analysis and geometric methods in deterministic optimal control, 97d:49001**
(Serapioni, Raul) *see* **Variational methods for discontinuous structures, 97d:49002**
(Sokolowski, Jan) *see* **Shape optimization and scientific computations, 97a:49004**
(Suquet, Pierre) *see* **Calculus of variations, homogenization and continuum mechanics, 97g:49001**
(Sussmann, Hector J.) *see* **Nonsmooth analysis and geometric methods in deterministic optimal control, 97d:49001**
(Tomarelli, Franco) *see* **Variational methods for discontinuous structures, 97d:49002**

Items listed otherwise than by author

Acireale ★ Equilibrium problems with side constraints. Lagrangean theory and duality. **97a:49003**
Calculus of variations, homogenization and continuum mechanics ★ Calculus of variations, homogenization and continuum mechanics. **97g:49001**
Como ★ Variational methods for discontinuous structures. **97d:49002**
Conference:
Variational Methods for Discontinuous Structures ★ Variational methods for discontinuous structures. **97d:49002**
Equilibrium problems with side constraints. Lagrangean theory and duality ★ Equilibrium problems with side constraints. Lagrangean theory and duality. **97a:49003**
Marseille ★ Calculus of variations, homogenization and continuum mechanics. **97g:49001**
Minneapolis, MN ★ Nonsmooth analysis and geometric methods in deterministic optimal control. **97d:49001**
Nonsmooth analysis and geometric methods in deterministic optimal control ★ Nonsmooth analysis and geometric methods in deterministic optimal control. **97d:49001**
School:
Shape Optimization and Scientific Computing ★ Shape optimization and scientific computations. **97a:49004**
Shape optimization and scientific computations ★ Shape optimization and scientific computations. **97a:49004**
Variational methods for discontinuous structures ★ Variational methods for discontinuous structures. **97d:49002**
Warsaw ★ Shape optimization and scientific computations. **97a:49004**
Workshop:
Calculus of Variations, Homogenization and Continuum Mechanics ★ Calculus of variations, homogenization and continuum mechanics. **97g:49001**
Equilibrium Problems with Side Constraints. Lagrangean Theory and Duality ★ Equilibrium problems with side constraints. Lagrangean theory and duality. **97a:49003**
Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control ★ Nonsmooth analysis and geometric methods in deterministic optimal control. **97d:49001**

Items with secondary classifications in 49–06

(Ambrosetti, Antonio) *see* **Variational methods in nonlinear analysis, 97k:00022**
(Bandle, C.) *see* **Calculus of variations, applications and computations, 97f:00016**
(Bemelmans, Josef) *see* **Calculus of variations, applications and computations, 97f:00016**
(Censor, Yair) *see* **Recent developments in optimization theory and nonlinear analysis, 97j:00021**
(Chipot, Michel) *see* **Calculus of variations, applications and computations, 97f:00016**
(Cranny, Timothy R.) *see* **Workshop: Analysis and Geometry, 97a:00040**
(Da Prato, Giuseppe) *see* **Partial differential equation methods in control and shape analysis, 97m:00027**
(Demeat'ev, V. T.) *see* **Models and methods of optimization, 97m:90003**
(Hildebrandt, Stefan) *see* **Geometric analysis and the calculus of variations, 97k:00023**

(Hutchinson, John E.) *see* **Workshop: Analysis and Geometry, 97a:00040**
(Jost, Jürgen) *see* **Geometric analysis and the calculus of variations, 97k:00023**
(Matzeu, Michele) *see* **Topological nonlinear analysis, 97m:58002**
(Reich, Simeon) *see* **Recent developments in optimization theory and nonlinear analysis, 97j:00021**
(Saint Jean Paulin, Jeannine) *see* **Calculus of variations, applications and computations, 97f:00016**
(Shafrir, Itai) *see* **Calculus of variations, applications and computations, 97f:00016**
(Vignoli, Alfonso) *see* **Topological nonlinear analysis, 97m:58002**
(Zhang, Gong Qing) *see* **Variational methods in nonlinear analysis, 97k:00022**
(Zolésio, Jean-Paul) *see* **Partial differential equation methods in control and shape analysis, 97m:00027**

Items listed otherwise than by author

Birthday:
Hildebrandt, Stefan ★ Geometric analysis and the calculus of variations. **97k:00023**
Calculus of variations, applications and computations ★ Calculus of variations, applications and computations. **97f:00016**
Canberra ★ Instructional Workshop on Analysis and Geometry. Part II. **97a:00040**
Conference:
Elliptic and Parabolic Problems ★ Calculus of variations, applications and computations. **97f:00016**
Contemporary Mathematics ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Erice ★ Variational methods in nonlinear analysis. **97k:00022**
Festschrift:
Hildebrandt, Stefan ★ Geometric analysis and the calculus of variations. **97k:00023**
Frascati ★ Topological nonlinear analysis. II. **97m:58002**
Geometric analysis and the calculus of variations ★ Geometric analysis and the calculus of variations. **97k:00023**
IFIP Conference:
Control and Shape Optimization ★ Partial differential equation methods in control and shape analysis. **97m:00027**
Jerusalem ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Meeting:
American Mathematical Society/Israel Mathematical Union ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Models and methods of optimization ★ Модели и методы оптимизации. (Russian) [Models and methods of optimization] **97m:90003**
Partial differential equation methods in control and shape analysis ★ Partial differential equation methods in control and shape analysis. **97m:00027**
Pont-à-Mousson ★ Calculus of variations, applications and computations. **97f:00016**
Recent developments in optimization theory and nonlinear analysis ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Session:
Optimization and Nonlinear Analysis ★ Recent developments in optimization theory and nonlinear analysis. **97j:00021**
Symposium:
Variational Problems and Related Topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **97j:00023**
Topological nonlinear analysis ★ Topological nonlinear analysis. II. **97m:58002**
Variational methods in nonlinear analysis ★ Variational methods in nonlinear analysis. **97k:00022**
Variational problems and related topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **97j:00023**
Workshop:
Analysis and Geometry ★ Instructional Workshop on Analysis and Geometry. Part II. **97a:00040**
Topological Analysis—Degree, Singularity and Variations: Developments of the Last 25 Years ★ Topological nonlinear analysis. II. **97m:58002**

49Jxx Existence theory for optimal solutions

Items with secondary classifications in 49Jxx

Wan, Frederic Y. M. ★ Introduction to the calculus of variations and its applications. (English summary) **97a:49001**

49J05 Free problems in one independent variable

Cellina, Arrigo (*with* Treu, Giulia; Zagatti, Sandro) On the minimum problem for a class of non-coercive functionals. **97d:49003**
Crasta, Graziano An existence result for noncoercive nonconvex problems in the calculus of variations. **97a:49005**
— (*with* Malusa, Annalisa) Existence results for noncoercive variational problems. (English summary) **97h:49002**
Fukagai, Nobuyoshi (*with* Narukawa, Kimiaki) On a model equation of one-dimensional elasticity. (English summary) **97b:49002**
Malusa, Annalisa *see* **Crasta, Graziano, 97h:49002**
Morozov, S. F. On the existence of an absolutely continuous solution of a three-dimensional problem of the calculus of variations for a limit exponent. (Russian) **97f:49001**
Narukawa, Kimiaki *see* **Fukagai, Nobuyoshi, 97b:49002**
Treu, Giulia *see* **Cellina, Arrigo; et al., 97d:49003**
Zagatti, Sandro *see* **Cellina, Arrigo; et al., 97d:49003**
Zaslavski, Alexander J. Structure of extremals for one-dimensional variational problems arising in continuum mechanics. **97a:49006**

Items with secondary classifications in 49J05

Ball, J. M. (*with* Nadirashvili, N. S.) Universal singular sets for the one-dimensional variational problems. (English summary) **97f:49049**
Burton, T. A. Boundedness and periodicity in integral and integro-differential equations. (English summary) **97b:45010**
Ekeland, I. (*with* Ghoussoub, N.; Tehrani, Hossein T.) Multiple solutions for a classical problem in the calculus of variations. **97k:34022**
Ghoussoub, N. *see* **Ekeland, I.; et al., 97k:34022**
Nadirashvili, N. S. *see* **Ball, J. M., 97f:49049**
Tehrani, Hossein T. *see* **Ekeland, I.; et al., 97k:34022**

49J10 Free problems in two or more independent variables

Arcoya, David (*with* Boccardo, Lucio) Critical points for multiple integrals of the calculus of variations. (English summary) **97h:49003**
Bobylëv, N. A. (*with* Korovin, S. K.) Topological characteristics of extremals of variational problems. **97b:49003**
Boccardo, Lucio *see* **Arcoya, David, 97h:49003**
Brock, F. (*with* Ferone, Vincenzo; Kawohl, Bernd) A symmetry problem in the calculus of variations. (English summary) **97i:49002**
Carriero, Michele (*with* Leaci, Antonio; Tomarelli, Franco) Free gradient discontinuities. (English summary) (*see* **97g:49001**)
Cellina, Arrigo On the existence problem in the calculus of variations. (*see* **97a:00029**)
Cheung, Wing-Sum Griffiths' formalism on the calculus of variations. (English summary) (*see* **97f:00023**)
Congedo, Giuseppe *see* **Tamanini, Italo, 97i:49004**
Dacorogna, Bernard Some recent results on polyconvex, quasiconvex and rank one convex functions. (*see* **97g:49001**)
— On the minimisation of nonquasiconvex integrals of the calculus of variations. **97k:49003**
Ferone, Vincenzo *see* **Brock, F.; et al., 97i:49002**
Franchi, Bruno (*with* Serra Cassano, Francesco) Gehring's lemma for metrics and higher integrability of the gradient for minimizers of noncoercive variational functionals. (English summary) **97f:49002**
Hoàng Xuân Phú (*with* Hoffmann, Armin) Essential supremum and supremum of summable functions. (English summary) **97b:49004**
Hoffmann, Armin *see* **Hoàng Xuân Phú, 97b:49004**
Iwaniec, Tadeusz (*with* Lutoborski, Adam) Polyconvex functionals for nearly conformal deformations. (English summary) **97d:49004**
Jerison, David The direct method in the calculus of variations for convex bodies. **97j:49001**
Kawohl, Bernd *see* **Brock, F.; et al., 97i:49002**
Korovin, S. K. *see* **Bobylëv, N. A., 97b:49003**
Leaci, Antonio *see* **Carriero, Michele; et al., (97g:49001)**
Leizarowitz, Arie (*with* Zaslavski, Alexander J.) Infinite-horizon variational problems with nonconvex integrands. (English summary) **97f:49003**
Lutoborski, Adam *see* **Iwaniec, Tadeusz, 97d:49004**
Marcellini, Paolo On some nonconvex variational problems. **97d:49005**
— Some problems of existence, uniqueness and regularity in the calculus of variations. (English summary) (*see* **97a:00029**)
— Regularity for some scalar variational problems under general growth conditions. (English summary) **97g:49002**
Miranda, Mario Geodesic lines in metric spaces. (English summary) **97i:49003**
do Nascimento, Arnaldo Simal Local minimizers induced by spatial inhomogeneity with inner transition layer. (English summary) **97k:49004**
Orsina, Luigi Weak minima for some functionals and elliptic equations involving measures. (English and French summaries) **97c:49001**
Parry, G. P. On the planar rank-one convexity condition. (English summary) **97e:49001**
Raymond, Jean-Pierre (*with* Seghir, Driss) Existence and characterization of BV-curves for problems of calculus of variations. **97k:49005**
Seghir, Driss *see* **Raymond, Jean-Pierre, 97k:49005**
Serra Cassano, Francesco *see* **Franchi, Bruno, 97f:49002**
Tamanini, Italo (*with* Congedo, Giuseppe) Optimal segmentation of unbounded functions. (English summary) **97i:49004**
Tartar, Luc Remarks on optimal design problems. (English summary) (*see* **97g:49001**)
Tomarelli, Franco *see* **Carriero, Michele; et al., (97g:49001)**
Wang, Yang[3] Existence and regularity of solutions to a variational problem of Mumford and Shah: a constructive approach. (English summary) **97f:49004**
Zaslavski, Alexander J. *see* **Leizarowitz, Arie, 97f:49003**
Zeng, San You Remarks on the quasiconvexity and stability of the equilibrium equation for variational integrals. (Chinese. English and Chinese summaries)

Items with secondary classifications in 49J10

Acerbi, E. (*with* Fusco, Nicola) A transmission problem in the calculus of variations. (English summary) **97c:49038**
Alberti, Giovanni (*with* Serra Cassano, Francesco) Non-occurrence of gap for one-dimensional autonomous functionals. (English summary) (*see* **97g:49001**)
Almgren, Fred (*with* Taylor, Jean E.) Optimal geometry in equilibrium and growth. (English summary) **97h:58054**
Bedivan, D. M. A boundary functional for optimal shape design problems. (English summary) **97b:49036**
Biroli, Marco (*with* Mosco, Umberto) A Saint-Venant type principle for Dirichlet forms on discontinuous media. (English and Italian summaries) **97b:35082**
Bouche, Liane Valere *see* **Pelletier, Fernand, 97g:53054**
Carozza, Menita (*with* Passarelli di Napoli, Antonia) A regularity theorem for minimisers of quasiconvex integrals: the case $1 < p < 2$. (English summary) **97k:49055**
Chipot, Michel (*with* Li, W.) Variational problems with potential wells and nonhomogeneous boundary conditions. (*see* **97g:49001**)
Comte, Myriam (*with* Mironescu, Petru) The behavior of a Ginzburg-Landau minimizer near its zeroes. **97c:35185**
De Giorgi, Ennio Motions of partitions. (Italian. English summary) **97i:49001**

Dincă, G. (*with* Matei, P.) A variational method for a nonlinear Sturm-Liouville problem. (English summary) **97d:34022**

Dolcini, Alfredo (*with* Esposito, L.; Fusco, Nicola) $C^{0,\alpha}$ regularity of ω-minima. (Italian summary) **97f:49050**

Esposito, L. *see* **Dolcini, Alfredo; et al., 97f:49050**

Fan, Xian Ling (*with* Zhao, Dun) Regularity of minimizers of variational integrals with continuous $p(x)$-growth conditions. (English summary) **97m:49031**

Flores-Bazán, Fabián Some remarks about relaxation problems in the calculus of variations. (English summary) **97c:49016**

Friesecke, G. (*with* McLeod, J. B.) Dynamics as a mechanism preventing the formation of finer and finer microstructure. (English summary) **97h:35220**

Fuchs, Martin[2] Lipschitz regularity for certain problems from relaxation. (English summary) **97c:49039**

Fusco, Nicola *see* **Acerbi, E., 97c:49038** *and* **Dolcini, Alfredo; et al., 97f:49050**

Ge, Xiaolin (*with* Nerode, Anil) Effective content of the calculus of variations. I. Semi-continuity and the chattering lemma. (English summary) **97j:03108**

Giachetti, Daniela (*with* Leonetti, Francesco; Schianchi, Rosanna) On the regularity of very weak minima. (English summary) **97a:49049**

Greco, Luigi Functionals with $L \log L$-growth in the gradient. (Italian summary) **97c:49010**

Grisanti, Carlo-Romano Approximation of a capillarity type problem by Plateau problems. (Italian summary) **97j:49047**

Hildebrandt, Stefan Contact transformations, Huygens's principle, and calculus of variations. **97d:70023**

Jarušek, Jiří Dynamical contact problems for bodies with a singular memory. (Italian summary) **97b:73083**

Jerison, David A Minkowski problem for electrostatic capacity. (English summary) **97e:31003**

Kawohl, Bernd Recent results on Newton's problem of minimal resistance. **97k:49038**

Kinderlehrer, David Magnetoelastic interactions. (English summary) **97h:78010**

Leonetti, Francesco *see* **Giachetti, Daniela; et al., 97a:49049**

Li, Kai Tai *see* **Zhang, Chengdian, 97f:49016**

Li, W. *see* **Chipot, Michel, (97g:49001)**

Li, Zhiping Lower semicontinuity of multiple integrals and convergent integrands. (English summary) **97h:49018**

— A theorem on lower semicontinuity of integral functionals. (English summary) **97d:49017**

Liang, Xi Ting $C^{1,\alpha}$-regularity for minimizers of a class of functionals with nonstandard growth conditions. (Chinese. English and Chinese summaries) **97b:49035**

— Local boundedness of solutions to obstacle problems with anisotropic variational functionals. (Chinese. Chinese summary)

— *see also* **Min, Tai Shan, 97f:49051**

Lopes, Orlando Sufficient conditions for minima of some translation invariant functionals. **97m:49015**

Ma, Liao Jiang *see* **Wang, Hui[1]; et al.**

Mascolo, Elvira (*with* Papi, Gloria) Harnack inequality for minimizers of integral functionals with general growth conditions. (English summary) **97c:49041**

Matei, P. *see* **Dincă, G., 97d:34022**

McLeod, J. B. *see* **Friesecke, G., 97h:35220**

Min, Tai Shan (*with* Liang, Xi Ting) $C^{1,\alpha}$ regularity of minima of functionals with nonstandard growth. (Chinese. Chinese summary) **97f:49051**

Mironescu, Petru *see* **Comte, Myriam, 97c:35185**

Mosco, Umberto *see* **Biroli, Marco, 97b:35082**

Nerode, Anil *see* **Ge, Xiaolin, 97j:03108**

Osmolovskiĭ, V. G. Phase transition in the mechanics of continuous media for big loading. **97i:73012**

Papi, Gloria *see* **Mascolo, Elvira, 97c:49041**

Passarelli di Napoli, Antonia *see* **Carozza, Menita, 97k:49055**

Pedregal, Pablo On the numerical analysis of non-convex variational problems. (English summary) **97j:49023**

Pelletier, Fernand (*with* Bouche, Liane Valere) Abnormality of trajectory in sub-Riemannian structure. (English summary) **97g:53054**

Roubíček, Tomáš A note about relaxation of vectorial variational problems. (*see* **97f:00016**)

Ruf, Bernhard Borderline problems in the calculus of variations. (English summary) **97d:49010**

Schechter, Martin (*with* Tintarev, Kyril) Critical points for pairs of functionals and semilinear elliptic equations. **97k:35084**

Schianchi, Rosanna *see* **Giachetti, Daniela; et al., 97a:49049**

Serra Cassano, Francesco *see* **Alberti, Giovanni, (97g:49001)**

Tahraoui, Rabah Symmetrization inequalities. **97h:35008**

Tamanini, Italo Optimal approximation by piecewise constant functions. **97j:49048**

Taylor, Jean E. *see* **Almgren, Fred, 97h:58054**

Tehrani, Hossein T. H^1 versus C^1 local minimizers on manifolds. **97a:49051**

Tintarev, Kyril *see* **Schechter, Martin, 97k:35084**

Wang, Hui[1] (*with* Ma, Liao Jiang; Wang, Ming Zhu) The problem of the existence of an optimal control for a forested area distribution system. (Chinese. English and Chinese summaries)

Wang, Ming Zhu *see* **Wang, Hui[1]; et al.**

Yang, Wei H. On a class of calculus of variations problems induced by the generalized Hölder inequality. (English summary) **97a:73088**

Zhang, Chengdian (*with* Li, Kai Tai) Semicontinuity of multiple integrals on $W^{k,p}(\Omega, \mathbf{R}^m)$ $(k \geq 1)$. (English summary) **97f:49016**

Zhang, Shi Qing (*with* Zhou, Qing[1]) Symmetric periodic noncollision solutions for N-body-type problems. (English summary) **97i:58146**

Zhao, Dun *see* **Fan, Xian Ling, 97m:49031**

Zhikov, V. V. On the Lavrent'ev effect. (Russian) **97a:49020**

Zhou, Qing[1] *see* **Zhang, Shi Qing, 97i:58146**

49J15 Optimal control problems involving ordinary differential equations

Belousova, Ye. R. (*with* Zarkh, M. A.) Synthesis of an optimal control in a fourth-order linear time-optimality problem. (Russian. Russian summary) **97e:49002**

Khallov, E. N. Estimates for the number of extrema of an extremal control integral in a time-optimality problem for a class of bilinear systems. (Russian. Russian summary) **97b:49005**

Khapaev, Mikhail Mikhallovich Differential equations that contain singular manifolds in control and minimization problems. (Russian. Russian summary) **97j:49002**

— Singular differential equations in control and minimization problems. (Russian) **97g:49003**

Khrustalev, M. M. New approach to the dynamic programming for optimal control problems with state constraints. (English summary) (*see* **97a:00029**)

Kiselev, Yu. N. (*with* Orlov, M. V.) The potential method in a linear time-optimality problem. (Russian. Russian summary) **97j:49003**

Lyapin, L. N. (*with* Muromtsev, Yu. L.) The existence of an optimal control in linear problems with a quality functional norm. (Russian. Russian summary) **97f:49005**

Miller, B. M. The generalized solutions of nonlinear optimization problems with impulse control. (English summary) **97e:49002**

Muromtsev, Yu. L. *see* **Lyapin, L. N., 97f:49005**

Orlov, M. V. *see* **Kiselev, Yu. N., 97j:49003**

Raymond, Jean-Pierre Optimal control problems in spaces of functions of bounded variation. (English summary) **97k:49006**

Sarychev, A. V. (*with* Zezza, PierLuigi) Index of an extremal of a Lagrange problem with periodic boundary conditions. **97j:49004**

Semmler, W. *see* **Sieveking, M., 97j:49005**

Sieveking, M. (*with* Semmler, W.) The present value of resources with large discount rates. (English summary) **97j:49005**

Vakhrameev, S. A. An existence theorem for a nonlinear time-optimality problem in a class of relay controls with a finite number of switchings. (Russian) **97c:49003**

Xu, Zongyun Time optimal impulse control problems. (English summary) **97b:49006**

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Cannarsa, Piermarco (*with* Sinestrari, Carlo) Convexity properties of the minimum time function. (English summary) **97f:49032**

Cheng, Chih-Wen (*with* Mizel, Victor J.) On the Lavrentiev phenomenon for optimal control problems with second-order dynamics. (English summary) **97g:49014**

Chentsov, A. G. *see* **Morina, S. I., 97c:93011**

Chukwu, E. N. Universal laws for the control of global economic growth with nonlinear hereditary dynamics. (English summary) **97g:90051**

(Colonius, Fritz) *see* **Häckl, Gerhard, 97i:93002**

Danilin, A. R. Regularization of nonlinear control problems under perturbations of constraints. (Russian) **97h:49048**

Ėfendiev, V. V. *see* **Zheltikov, V. P., 97g:49027**

Fu, Yi Hui (*with* Liu, Xiao Ye) The solvability conditions of the LQ inverse problem. (Chinese. English and Chinese summaries)

Gusev, S. V. (*with* Ruzhanski, M. V.) Design of minimum-time optimal motion of multisectional manipulator. (Russian. Russian summary)

Häckl, Gerhard ★ Reachable sets, control sets and their computation. (English and German summaries) **97i:93002**

Ivanov, G. E. Optimal guaranteed control of linear systems in the presence of perturbations. (Russian. Russian summary) **97h:49035**

Khallov, E. N. Parametrization of the controllability set of a linear dynamical system. (Russian) **97k:93007**

Lepp, Riho On approximation of optimal controls with discontinuous strategies. (English and Estonian summaries) **97h:49033**

Lin, Zong Chi Optimal control of singularly perturbed nonlinear state regulator problem. (English summary) **97h:49036**

Lipp, Stephen C. Brachistochrone with Coulomb friction. (English summary) **97m:49018**

Liu, Xiao Ye *see* **Fu, Yi Hui**

Malanowski, Kazimierz (*with* Maurer, Helmut) Sensitivity analysis for parametric control problems with control-state constraints. (English summary) **97d:49028**

Maurer, Helmut *see* **Malanowski, Kazimierz, 97d:49028**

Miller, B. M. The generalized solutions of ordinary differential equations in the impulse control problems. (English summary) **97e:34121**

(Mordukhovich, Boris S.) *see* **Nonsmooth analysis and geometric methods in deterministic optimal control, 97d:49001**

Morina, S. I. (*with* Chentsov, A. G.) Limited realization of asymptotically attainable elements. (Russian. Russian summary) **97c:93011**

Motta, Monica (*with* Rampazzo, Franco) Nonlinear systems with unbounded controls and state constraints: a problem of proper extension. (English summary) **97h:93030**

Petrova, V. V. (*with* Tonkov, E. L.) Admissibility of periodic processes and existence theorems for periodic solutions. I. (Russian) **97m:34078**

Piccoli, Benedetto Regular time-optimal syntheses for smooth planar systems. (English summary) **97i:49035**

— Classification of generic singularities for the planar time-optimal synthesis. (English summary) **97h:49051**

Plotnikov, V. A. (*with* Plotnikova, L. I.) Asymptotic methods for quasidifferential equations in the metric space. **97m:34037**

Plotnikova, L. I. *see* **Plotnikov, V. A., 97m:34037**

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Render, Hermann Homomorphisms on Hadamard algebras. (English summary) **97e:46071**

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Savinov, V. B. A differential pursuit game with one pursuer and several evaders. (Russian. English and Russian summaries) **97c:90155**

Schättler, Heinz Small-time reachable sets and time-optimal feedback control. **97i:49036**

Silin, D. B. (*with* Trin′ko, N. G.) A convexification algorithm for the modeling of nonlinear dynamic processes. (*see* **97a:00029**)
Sinestrari, Carlo *see* **Cannarsa, Piermarco, 97f:49032**
Srochko, V. A. ★ Вариационный принцип максимума и методы линеаризации в задачах оптимального управления. (Russian. Russian summary) [The variational maximum principle and linearization methods in optimal control problems] **97b:49001**
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Tonkov, E. L. *see* **Petrova, V. V., 97m:34078**
Trin′ko, N. G. *see* **Silin, D. B., (97a:00029)**
Yugai, L. P. On the optimization of evasion parameters in quasilinear differential games. (Russian) **97m:90120**
Zaslavski, Alexander J. Dynamic properties of optimal solutions of variational problems. **97h:49022**
Zelikin, M. I. The Fuller phenomenon in problems of vibration of two linked oscillators. **97d:93041**
Zheltikov, V. P. (*with* Èfendiev, V. V.) Control of a standard system with delay. (Russian. English and Ukrainian summaries) **97g:49027**
Zhou, Xun Yu Deterministic near-optimal controls. II. Dynamic programming and viscosity solution approach. (English summary) **97h:49040**

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Nonsmooth analysis and geometric methods in deterministic optimal control ★ Nonsmooth analysis and geometric methods in deterministic optimal control. **97d:49001**
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Nonsmooth Analysis and Geometric Methods in Deterministic Optimal Control ★ Nonsmooth analysis and geometric methods in deterministic optimal control. **97d:49001**

49J20 Optimal control problems involving partial differential equations

Arisawa, Mariko (*with* Lions, Pierre-Louis) Continuity of admissible trajectories for state constraints control problems. **97i:49005**
Bello, Juan Antonio (*with* Fernández-Cara, Enrique; Lemoine, Jérôme; Simon, Jacques) The differentiability of the drag with respect to the variations of a Lipschitz domain in a Navier-Stokes flow. (English summary) **97k:49007**
Borisovich, Yu. G. (*with* Obukhovskiĭ, V. V.) On an optimization problem for control systems of parabolic type. (Russian) **97j:49006**
Bradley, M. E. (*with* Lenhart, S. M.) Bilinear optimal control of a Kirchhoff plate via internal controllers. (English summary) **97a:49007**
Căpăţînă, Anca (*with* Stavre, Ruxandra) Optimality conditions for control problems in heat conducting Navier-Stokes fluid. (English summary) **97d:49006**
Degiovanni, Marco (*with* Zani, Simone) Euler equations involving nonlinearities without growth conditions. (English summary) **97f:49006**
Fernández-Cara, Enrique *see* **Bello, Juan Antonio; et al., 97k:49007**
Goncharenko, Yu. V. Optimal impulse control of hyperbolic systems. (Russian. English and Ukrainian summaries) **97f:49007**
Lemoine, Jérôme *see* **Bello, Juan Antonio; et al., 97k:49007**
Lenhart, S. M. *see* **Bradley, M. E., 97a:49007**
Lions, Pierre-Louis *see* **Arisawa, Mariko, 97i:49005**
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Ou, Yuh-Roung Optimal control problems of viscous flow. (English summary) (*see* **97a:00029**)
Raymond, Jean-Pierre Existence and bang-bang theorems for control problems governed by hyperbolic equations. (*see* **97g:49001**)
Sadek, Ibrahim S. (*with* Melvin, Valerie H.) Optimal control of serially connected structures using spatially distributed pointwise controllers. (English summary) **97j:49007**
Simon, Jacques *see* **Bello, Juan Antonio; et al., 97k:49007**
Stavre, Ruxandra *see* **Căpăţînă, Anca, 97d:49006**
Su, Ning (*with* Xiao, Shu Tie) Some optimal control problems for heat transfer processes. (Chinese. English and Chinese summaries)
Sumin, M. I. Suboptimal control of systems with distributed parameters: minimizing sequences and the value function. (Russian. Russian summary) **97m:49002**
Xiao, Shu Tie *see* **Su, Ning**
You, Yun Cheng Optimal feedback control of Ginzburg-Landau equation for superconductivity via differential inclusion. (English summary) **97m:49003**
Zani, Simone *see* **Degiovanni, Marco, 97f:49006**
Zhang, Shen Xue The minimization problem for a class of differential equations with convolution. (Chinese. English and Chinese summaries)

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Azérad, Pascal (*with* Pousin, Jérôme) Inégalité de Poincaré courbe pour le traitement variationnel de l'équation de transport. (English and French summaries) [A curved Poincaré inequality for the variational form of the advection equation] **97c:35026**
El Yacoubi, Samira (*with* Sokołowski, Jan) Domain optimization problems for parabolic control systems. (English summary) **97e:49035**
Fosdick, Roger L. (*with* Mason, Darren E.) Single phase energy minimizers for materials with nonlocal spatial dependence. (English summary) **97a:73085**
Gockenbach, Mark S. (*with* Symes, William W.; Tapia, Richard A.) The dual regularization approach to seismic velocity inversion. (English summary) **97c:86005**
Kang, Sungkwon Stability analysis for a dissipative feedback control law. **97j:93030**
Kogut, P. I. Asymptotic analysis of controlled parabolic systems with evolution on the boundary. (Ukrainian. English summary)
Lederman, Claudia An optimization problem in elasticity. (English summary) **97a:73063**
Lyashenko, O. I. Models for optimal harvest with convex function of growth rate of a population. (English summary) **97e:92009**
Mason, Darren E. *see* **Fosdick, Roger L., 97a:73085**
Okhezin, S. P. The shape design problem for systems with distributed parameters. (English summary) (*see* **97a:00029**)
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Serovaĭskiĭ, S. Ya. Necessary conditions for an extremum in the case of the nondifferentiability of the state function with respect to the control. (Russian. Russian summary) **97b:49021**
— On a minimax problem for nonlinear elliptic equations. (Russian) **97i:35043**
Šestak, Ivan Optimal control of the system with subdifferential material law. (English and Serbo-Croatian summaries)
Shutyaev, V. P. Properties of a control operator in a problem on data assimilation and on algorithms for its solution. (Russian)
Sokołowski, Jan *see* **El Yacoubi, Samira, 97e:49035**
Sumin, M. I. Suboptimal control of systems with distributed parameters: minimizing sequences, value function, regularity, normality. (English summary) **97h:49032**
Symes, William W. *see* **Gockenbach, Mark S.; et al., 97c:86005**
Tapia, Richard A. *see* **Gockenbach, Mark S.; et al., 97c:86005**
Wang, Chunming Approximation and numerical experiments for control of time periodic parabolic distributed parameter systems. (English summary) **97g:49042**
Zhao, Yi[1] The global attractor of infinite-dimensional dynamical systems governed by a class of nonlinear parabolic variational inequalities and associated control problems. (English summary) **97a:34174**
Zhu, Jinghao Nonlinear optimal control and the positive square roots of derivative operators.

49J22 Optimal control problems involving integral equations

Aizicovici, Sergiu (*with* Papageorgiou, Nikolaos S.) Optimal control and relaxation of systems governed by Volterra integral equations. (English summary) (*see* **97a:00029**)
Papageorgiou, Nikolaos S. *see* **Aizicovici, Sergiu, (97a:00029)**
Zaslavski, Alexander J. Solutions for a class of optimal control problems with time delay. I. (English summary) **97h:49004**

49J24 Optimal control problems involving differential inclusions

Ahmed, Nasir Uddin Optimal control of infinite-dimensional systems governed by functional-differential inclusions. (English summary) **97a:49008**
Aubin, Jean-Pierre (*with* Frankowska, Halina) The viability kernel algorithm for computing value functions of infinite horizon optimal control problems. (English summary) **97e:49003**
Avgerinos, Evgenios P. Optimal control of differential inclusions with state constraints. **97j:49008**
Cichoń, Mieczysław Differential inclusions and abstract control problems. (English summary) **97i:49006**
Davideanu, Cătălina Fractional step scheme applied to a control problem.
Deshpande, Akash (*with* Varaiya, Pravin) Viable control of hybrid systems. (English summary) **97d:49007**
Frankowska, Halina *see* **Aubin, Jean-Pierre, 97e:49003**
Guseinov, Kh. G. On control systems described by differential inclusions. I. (Russian. Russian summary) **97m:49004**
— On control systems described by differential inclusions. II. (Russian. Russian summary) **97m:49005**
Kurzhanskiĭ, A. B. Ellipsoidal calculus for estimation and feedback control. **97i:49007**
Mamedov, M. A. Turnpike theorems for convex problems. (Russian. English and Ukrainian summaries)
Mordukhovich, Boris S. Optimization and finite difference approximations of nonconvex differential inclusions with free time. (English summary) **97k:49008**
Nikonov, O. I. On the theory of multivalued integration. Some properties of the generalized convolution integral. (Russian) **97i:49008**
Panasyuk, A. I. Quasidifferential equations in a complete metric space under Carathéodory-type conditions. I. (Russian. Russian summary) **97j:49009**
Papageorgiou, Nikolaos S. Existence theory for nonlinear distributed parameter optimal control problems. (English summary) **97a:49009**
Roubíček, Tomáš Relaxation of optimal control problems coercive in L^p-spaces. (English summary) **97a:49010**
Ton, Bui An On an optimal control problem for a parabolic inclusion. **97h:49005**
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Ahmed, Nasir Uddin (*with* Xiang, Xiao Ling) Necessary conditions of optimality for a class of semilinear uncertain systems with unbounded monotone operator. (English summary) **97a:49037**
Avgerinos, Evgenios P. Relaxed trajectories of maximal monotone functional-differential inclusions in $\mathbf{R}^n$. (English summary) **97a:34035**
Balder, Erik J. Connections between recent Olech-type lemmas and Visintin's theorem. (English summary) **97m:28012**
Borisovich, Yu. G. (*with* Obukhovskiĭ, V. V.) On an optimization problem for control systems of parabolic type. (Russian) **97j:49006**
Bressan, Alberto Differential inclusions without convexity: a survey of directionally continuous selections. (*see* **97a:00029**)
Cârjă, Ovidiu Viability for differential inclusions in Banach spaces. (English summary) **97e:34026**
Carl, Siegfried (*with* Grossmann, Ch.; Pao, C. V.) Existence and monotone iterations for parabolic differential inclusions. (English summary) **97a:35271**
Castaing, Charles (*with* Monteiro Marques, Manuel D. P.) Evolution problems associated with nonconvex closed moving sets with bounded variation. (English summary) **97a:34037**
Colombo, Giovanni On extremal solutions of differential inclusions. (English summary) **97e:34027**

De Blasi, Francesco S. (*with* Pianigiani, G.) On the solution sets of nonconvex differential inclusions. **97c:34027**
Domachowski, Stanisław An application of the topological degree and completely continuous extensions of selectors to nonconvex differential inclusions. **97h:34014**
Donchev, Tz. *see* **Dontchev, Asen L.; et al., 97a:34038**
Dontchev, Asen L. (*with* Donchev, Tz.; Slavov, I.) A Tikhonov-type theorem for singularly perturbed differential inclusions. **97a:34038**
Filippova, T. F. *see* **Kurzhanskiĭ, A. B., 97m:34035**
Frigon, Marlène (*with* Górniewicz, Lech; Kaczynski, Tomasz) Differential inclusions and implicit equations on closed subsets of $\mathbf{R}^n$. (English summary) (*see* **97a:00029**)
Górniewicz, Lech *see* **Frigon, Marlène; et al., (97a:00029)**
Grossmann, Ch. *see* **Carl, Siegfried; et al., 97a:35271**
Kaczynski, Tomasz *see* **Frigon, Marlène; et al., (97a:00029)**
Kayumov, R. I. Exact solution of the estimation problem for one class of nonlinear systems. (Russian. Russian summary) **97a:93019**
Khrustalev, M. M. New approach to the dynamic programming for optimal control problems with state constraints. (English summary) (*see* **97a:00029**)
Kisielewicz, Andrzej Relaxation theorem for set-valued functions with decomposable values. (English summary) **97k:28023**
Kunze, Markus (*with* Monteiro Marques, Manuel D. P.) Yosida-Moreau regularization of sweeping processes with unbounded variation. (English summary) **97g:34023**
Kurzhanskiĭ, A. B. (*with* Filippova, T. F.) Differential inclusions with phase constraints. The perturbation method. (Russian) **97m:34035**
Loridan, Pierre Well-posedness in vector optimization. (English summary) **97f:90080**
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Monteiro Marques, Manuel D. P. *see* **Castaing, Charles, 97a:34037** *and* **Kunze, Markus, 97g:34023**
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Pao, C. V. *see* **Carl, Siegfried; et al., 97a:35271**
Papageorgiou, Nikolaos S. Existence of solutions for second-order evolution inclusions. (English summary) **97c:34129**
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(Piet-Lahanier, Hélène) *see* **Bounding approaches to system identification, 97i:93004**
Quincampoix, Marc Singular perturbations for systems of differential inclusions. (English summary) **97c:34028**
Rapaport, Alain (*with* Vinter, R. B.) Invariance properties of time measurable differential inclusions and dynamic programming. (English summary) **97d:34015**
Shekhar, S. Local characterization of invariant sets of an autonomous differential inclusion. Boundary of unstable manifolds. (English summary) **97a:34040**
Slavov, I. *see* **Dontchev, Asen L.; et al., 97a:34038**
Vinter, R. B. *see* **Rapaport, Alain, 97d:34015**
(Walter, Eric) *see* **Bounding approaches to system identification, 97i:93004**
Wang, Zhi Hua Viability theorems for functional-differential inclusions in Banach spaces. (Chinese. English and Chinese summaries)
Xiang, Xiao Ling *see* **Ahmed, Nasir Uddin, 97a:49037**

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49J25 Optimal control problems involving equations with retarded arguments [see also 34K35]

Carlson, Dean A. An existence theorem for hereditary Lagrange problems on an unbounded interval. **97b:49007**
Dinh Thế Lục Taylor's formula for $C^{k,1}$ functions. (English summary) **97a:49011**
Pimenov, V. G. The concept of generalized controls for functional-differential systems. (Russian. Russian summary) **97c:49004**
Warga, J. A proper relaxation of controls with variable shifts. (English summary) **97c:49005**

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Avgerinos, Evgenios P. Relaxed trajectories of maximal monotone functional-differential inclusions in $\mathbf{R}^n$. (English summary) **97a:34035**
Di, Simon Classical optimality conditions under weaker assumptions. (English summary) **97a:49026**
Yakubovich, Vladimir Andreevich A universal controller for the optimal damping of forced oscillations in linear systems with delay. (Russian) **97a:93053**
Zaslavski, Alexander J. Solutions for a class of optimal control problems with time delay. I. (English summary) **97h:49004**

49J27 Problems in abstract spaces [see 90C48]

Auslender, Alfred Noncoercive optimization problems. (English summary) **97j:49010**
Chaudhuri, Arun Kumar (*with* Mukherjee, Rathindra Nath[2]) On a certain class of minimum effort problems in Banach spaces. (English summary) **97k:49009**
Daletskiĭ, Yuriĭ L'vovich (*with* Steblovskaya, V. R.) On infinite-dimensional variational problems. (English summary) **97b:49008**
Jiménez Guerra, Pedro (*with* Rodriguez-Salinas, Baltasar) A general solution of the Monge-Kantorovich mass-transfer problem. (English summary) **97h:49006**
Kada, Osamu (*with* Suzuki, Tomonari; Takahashi, Wataru) Nonconvex minimization theorems and fixed point theorems in complete metric spaces. (English summary) **97j:49011**
Kwun, Young-Chel *see* **Park, Jong Yeoul; et al., 97i:49009**
Mukherjee, Rathindra Nath[2] *see* **Chaudhuri, Arun Kumar, 97k:49009**
Ndoutoume, James Louis Optimal control in some generalized equations. (English summary) **97d:49008**
Pandolfi, Luciano A frequency domain approach to the boundary control problem for parabolic equations. (English summary) **97b:49009**
Park, Jong Yeoul (*with* Ryu, Jong-Won; Kwun, Young-Chel) Minimum-time problem of nonlinear control system on separable reflexive Banach spaces. **97h:49009**
Rădulescu, Vicenţiu D. Locally Lipschitz functionals with the strong Palais-Smale property. (English summary) **97i:49010**
Rodriguez-Salinas, Baltasar *see* **Jiménez Guerra, Pedro, 97h:49006**
Ryu, Jong-Won *see* **Park, Jong Yeoul; et al., 97i:49009**
Sapronov, Yu. I. Finite-dimensional reductions in smooth extremal problems. (Russian) **97k:49010**
Staffans, Olof J. Quadratic optimal control of stable well-posed linear systems. (English summary) **97k:49011**
Steblovskaya, V. R. *see* **Daletskiĭ, Yuriĭ L'vovich, 97b:49008**
Suzuki, Tomonari *see* **Kada, Osamu; et al., 97j:49011**
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Turinici, Mihai Vector extensions of the variational Ekeland's result. **97f:49008**

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Ahmed, Nasir Uddin Partially observed stochastic control on Hilbert space. (English summary) **97h:93090**
Angleraud, Patrice *see* **Dolecki, Szymon, 97g:49044**
Antipin, A. S. (*with* Vasil'ev, F. P.) On a continuous minimization method in spaces with a variable metric. (Russian) **97f:90109**
Auslender, Alfred Closedness criteria for the image of a closed set by a linear operator. (English summary) **97j:47091**
Buttazzo, Giuseppe (*with* Freddi, Lorenzo) Optimal control problems with weakly converging input operators. (English summary) **97b:49016**
Dolecki, Szymon (*with* Angleraud, Patrice) When a well behaving convex function is well-conditioned. (English summary) **97g:49044**
Drwalewska, A. A generalization of the Weierstrass theorem. (English summary) **97h:90048**
Freddi, Lorenzo *see* **Buttazzo, Giuseppe, 97b:49016**
Glover, Bevil Milton *see* **Rubinov, Aleksandr M.; et al., 97a:90045**
Isac, George Conical coercivity conditions and global minimization on cones. An existence result. (English summary) (*see* **97a:90004**)
Jeyakumar, V. *see* **Rubinov, Aleksandr M.; et al., 97a:90045**
Kravvaritis, Dimitrios (*with* Pantelides, George; Papageorgiou, Nikolaos S.) Optimal programs for a continuous time infinite horizon growth model. (English summary) **97g:90034**
Páles, Zsolt (*with* Zeidan, V. M.) Second order necessary conditions for nonsmooth optimum problems with constraints. (English summary) (*see* **97a:00029**)
Pantelides, George *see* **Kravvaritis, Dimitrios; et al., 97g:90034**
Papageorgiou, Nikolaos S. On evolution inclusions driven by m-accretive operators. (English summary) **97i:34090**
— *see also* **Kravvaritis, Dimitrios; et al., 97g:90034**
Rubinov, Aleksandr M. (*with* Jeyakumar, V.; Glover, Bevil Milton) Generalized convex relations with applications to optimization and models of economic dynamics. (English summary) **97a:90045**
Sajid, Said Solution viable d'une inclusion différentielle non convexe. (English and French summaries) [Viable solution of a nonconvex differential inclusion] **97k:34018**
Semenkova, E. A. On the analytic representation of half-spaces in finite-dimensional vector spaces. (Russian. English and Russian summaries) **97m:52014**
Shutyaev, V. P. Some properties of a control operator in the problem of data assimilation, and algorithms for its solution. (Russian. Russian summary) **97h:93016**
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Zeidan, V. M. *see* **Páles, Zsolt, (97a:00029)**

49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)

Bressan, Alberto Impulsive control systems. **97m:49006**
Khalov, E. N. On some estimates for extremal controls in the time-optimality problem for a class of bilinear systems. (Russian. English and Russian summaries) **97c:49006**

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Heymann, Valerii I. (*with* Kryazhimskii, Arkadii V.) On finite-dimensional parametrizations of attainability sets. (English summary) **97f:93002**
Kryazhimskii, Arkadii V. *see* **Heymann, Valerii I., 97f:93002**
Miller, B. M. The generalized solutions of nonlinear optimization problems with impulse control. (English summary) **97e:49002**
Raymond, Jean-Pierre Existence and bang-bang theorems for control problems governed by hyperbolic equations. (*see* **97g:49001**)
Vakhrameev, S. A. An existence theorem for a nonlinear time-optimality problem in a class of relay controls with a finite number of switchings. (Russian) **97c:49003**
Zelikin, M. I. The Fuller phenomenon in problems of vibration of two linked oscillators. **97d:93041**

49J35 Minimax problems

Cao, Shi Yi *see* **Wang, Da Cheng, 97e:49004**
Cheng, Cao-Zong (*with* Lin, Bor-Luh) A two functions, noncompact topological minimax theorem. **97k:49012**
Chu, Liang-Ju On Fan's minimax inequality. (English summary) **97d:49009**
Huang, Zhen Yu (*with* Shen, Zu He) Entropy method for one sort of nonlinear minimax problem.
— (*with* Shen, Zu He) An entropy function method for solving a class of nonlinear max-min problems. (Chinese)
Joó, István (*with* Kassay, G.) Convexity, minimax theorems and their applications. **97c:49007**
— Remark on Ky Fan convexity. (English summary) **97j:49012**
Kassay, G. *see* **Joó, István, 97c:49007**
Lee, Byung Soo *see* **Lee, Sang Chul, 97k:49013**

Lee, Sang Chul (*with* Lee, Byung Soo) Some generalizations of minimax inequality. (English summary) **97k:49013**
Lin, Bor-Luh *see* **Cheng, Cao-Zong, 97k:49012**
Motreanu, Dumitru A multiple linking minimax principle. (English summary) **97b:49010**
Naselli Ricceri, Ornella On a class of functions with equal infima over a domain and its boundary. (English summary) **97k:49014**
Ricceri, Biagio On some recent topological mini-max theorems. (English summary) **97g:49004**
Ruf, Bernhard Borderline problems in the calculus of variations. (English summary) **97d:49010**
Shen, Zu He *see* **Huang, Zhen Yu**
Tan, Kok-Keong (*with* Yu, Jian; Yuan, Xian-Zhi) Existence theorems for saddle points of vector-valued maps. (English summary) **97d:49011**
Thompson, Harold Bevan (*with* Yuan, Xian-Zhi) Topological intersection theorems for two set-valued mappings and applications to minimax inequalities. (English summary) **97j:49013**
Wang, Da Cheng (*with* Cao, Shi Yi) Parametric nonempty intersection theorems and minimax theorems in generalized interval spaces. (Chinese. English and Chinese summaries) **97e:49004**
— (*with* Cao, Shi Yi) Topological minimax theorems, section theorems and existence theorems for equilibrium points in an abstract economy. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Shi Sheng; et al., 97d:49012**
Wang, Tixiang Minimax theorem and its applications in locally convex subsets of Banach manifolds. **97g:49005**
Wu, Xian[3] *see* **Zhang, Shi Sheng; et al., 97d:49012**
Yu, Jian *see* **Tan, Kok-Keong; et al., 97d:49011**
Yuan, Xian-Zhi *see* **Tan, Kok-Keong; et al., 97d:49011** *and* **Thompson, Harold Bevan, 97j:49013**
Zhang, Shi Sheng (*with* Zhang, Xian[1]) A general topological version of minimax theorem. (Chinese. English and Chinese summaries) **97h:49007**
— (*with* Wu, Xian[3]; Wang, Da Cheng) A new minimax theorem and its applications. (Chinese. English and Chinese summaries) **97d:49012**
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Cellina, Arrigo On the existence problem in the calculus of variations. (*see* **97a:00029**)
Cheng, Cao-Zong (*with* Lin, Bor-Luh) Nonlinear, noncompact minimax theorems. (English summary) **97e:49023**
Chowdhury, Mohammad S. R. (*with* Tan, Kok-Keong) Generalization of Ky Fan's minimax inequality with applications to generalized variational inequalities for pseudo-monotone operators and fixed point theorems. **97k:47054**
Do Van Luu (*with* Oettli, Werner) Higher-order optimality conditions for a minimax. (English summary) **97j:49032**
Huang, Zhen Guo (*with* Liu, De Ming[2]) Solutions to quasi-convex games. (Chinese. English and Chinese summaries)
Jiang, Jiabe Correction of a computer-error in the paper: "Simultaneous solution to fixed point and minimax-type inequality problems" [Acta Math. Sinica (N.S.) **9** (1993), no. 4, 352–366; MR 96m:47106].
Kuang, Hua Wu The classes of weakly concave and weakly convex functions and their applications. (Chinese. English and Chinese summaries) **97e:46105**
Lin, Bor-Luh *see* **Cheng, Cao-Zong, 97e:49023**
Liu, De Ming[2] *see* **Huang, Zhen Guo**
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Qi, Gui Jie Saddle points in the minimax theorem. (Chinese. English and Chinese summaries) **97d:58047**
Serovaiskiĭ, S. Ya. On a minimax problem for nonlinear elliptic equations. (Russian) **97l:35043**
Tan, Kok-Keong (*with* Yu, Jian; Yuan, Xian-Zhi) The uniqueness of saddle points. (English summary) **97h:46125**
— *see also* **Chowdhury, Mohammad S. R., 97k:47054**
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49J40 Variational methods including variational inequalities

Adly, Samir (*with* Goeleven, Daniel) Homoclinic orbits for a class of hemivariational inequalities. (English summary) **97b:49011**
— (*with* Goeleven, Daniel; Théra, Michel) Recession mappings and noncoercive variational inequalities. **97e:49005**
— A perturbed iterative method for a general class of variational inequalities. (English summary) **97m:49007**
Al'ber, Ya. I. (*with* Kartsatos, Athanassios G.; Litsyna, E. M.) Iterative solution of unstable variational inequalities on approximately given sets. (English summary) **97e:49006**
Barbu, Viorel (*with* Răşcanu, Aurel) Parabolic variational inequalities with singular inputs. **97k:49015**
Barroso, Ana Cristina (*with* Bouchitté, Guy; Buttazzo, Giuseppe; Fonseca, Irene) Relaxation of bulk and interfacial energies. (English summary) **97h:49008**
Behera, Akrur (*with* Panda, G. K.) On nonlinear random variational inequality problem of mathematical programming in Banach spaces. (English summary) **97g:49006**
Benkirane, A. A theorem of H. Brezis and F. E. Browder type in Orlicz spaces and application. **97l:49011**
Bianchi, Monica (*with* Schaible, Siegfried) Generalized monotone bifunctions and equilibrium problems. (English summary) **97h:49009**
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Carbone, Antonio A note on a variational inequality. (English summary) **97l:49012**
Chang, Tong Huei Generalized variational inequalities with pseudo-monotone mappings. (English summary) **97c:49008**
Chen, Guang Ya (*with* Li, Shu Jie) Existence of solutions for a generalized vector quasivariational inequality. (English summary) **97k:49016**
Chen, Guo Ping Error estimates of the Morley element for some fourth-order elliptic variational inequalities. (Chinese. English and Chinese summaries)
Cho, Sung-Jin *see* **Lee, Gue Myung; et al., 97j:49014**
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Cubiotti, Paolo A note on Chan and Pang's existence theorem for generalized quasi-variational inequalities. (English summary) **97a:49012**
— (*with* Yuan, Xian-Zhi) A generalised quasi-variational inequality without upper semicontinuity. (English summary) **97h:49010**
— A counter-example to some recent existence results on implicit variational inequalities. (English summary) **97c:49009**
— (*with* Yao, Jen Chih) Necessary and sufficient conditions for the existence of the implicit variational inequality problem. (English summary)
— General nonlinear variational inequalities with $(S)^1_+$ operators. (English summary)
Dacorogna, Bernard (*with* Haeberly, Jean-Pierre) Remarks on a numerical study of convexity, quasiconvexity, and rank one convexity. **97l:49013**
Daniele, Patrizia Dual variational inequality and applications to asymmetric traffic equilibrium problem with capacity constraints. (English summary) **97k:49017**
Davis, Mark H. A. (*with* Farid, Mohammad) A target recognition problem: sequential analysis and optimal control. (English summary) **97k:49018**
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Domokos, András Implicit function theorems and variational inequalities. (Romanian summary) **97m:49010**
— Parametric monotone generalized equations in reflexive Banach spaces. (English summary) **97m:49011**
Dontchev, Asen L. (*with* Hager, William W.) Implicit functions defined by generalized equations. (English summary) (*see* **97a:00029**)
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Feng, Hui (*with* Ying, Long An) An infinite element method for variational inequalities with discontinuous coefficients. (Chinese. English summary) **97m:49012**
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Gallo, Angela (*with* Piccirillo, Anna Maria) Existence theorems for two classes of second order evolution variational inequalities. (English summary) **97e:49007**
Ganguly, Ashok (*with* Wadhwa, Kamal Kumar) A generalization of a section theorem due to Itoh, Takahashi and Yanagi and a class of variational type inequalities. (English summary) **97h:49011**
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Giannessi, Franco A remark on infinite-dimensional variational inequalities. (English summary) **97e:49008**
Goeleven, Daniel Harmonic solutions for noncoercive dynamic unilateral problems. (English summary) **97b:49012**
— (*with* Motreanu, Dumitru; Panagiotopoulos, Panagiotis D.) Multiple solutions for a class of eigenvalue problems in hemivariational inequalities. **97g:49007**
— (*with* Stavroulakis, Georgios E.; Panagiotopoulos, Panagiotis D.) Solvability theory for a class of hemivariational inequalities involving copositive plus matrices. Applications in robotics. (English summary) **97k:49019**
— On a class of hemivariational inequalities involving hemicontinuous monotone operators. Application in unilateral mechanics. (English summary) **97g:49008**
— A bifurcation theory for a nonconvex unilateral laminated plate problem formulated as a hemivariational inequality involving a potential operator. (English and German summaries) **97k:49020**
— *see also* **Adly, Samir, 97b:49011** *and* **97e:49005**
Goncharov, V. V. (*with* Ornelas, António) On minima of a functional of the gradient: a continuous selection. **97g:49009**
Greco, Luigi Functionals with $L \log L$-growth in the gradient. (Italian summary) **97c:49010**
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He, Bing Sheng Some projection and contraction methods for solving monotone variational inequalities. (Chinese. English summary) **97k:49021**
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— A class of projection and contraction methods for monotone variational inequalities. (English summary) **97m:49009**
Huang, Jialin Existence and uniqueness of solutions for a class of general nonlinear variational-like inequality. (English and Chinese summaries) **97d:49013**
Huang, Nan Jing (*with* Cao, Shi Yi) A class of variational inclusions for fuzzy mappings. (Chinese. English and Chinese summaries)
Huang, Wen Zao *see* **Li, Tie Cheng[2]**
Kang, Shi Kun *see* **Zhang, Shi Sheng; et al.**
Kartsatos, Athanassios G. *see* **Al'ber, Ya. I.; et al., 97e:49006**
Khan, Akhtar A. Auxiliary problem principle extended to monotone variational inequalities. (English summary) **97h:49012**
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Antonov, V. K. A method for the design of controllers with given time-optimality and minimum oscillation of the transient processes. (Russian. Russian summary)
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Bogatyrev, A. V. (*with* Pyatnitskiĭ, E. S.) Necessary conditions for optimality in terms of the generalized Hamilton-Jacobi-Bellman equations with phase constraints. (Russian) **97k:49036**
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Mordukhovich, Boris S. Optimization and finite difference approximations of nonconvex differential inclusions with free time. (English summary) **97k:49008**
Nikonov, O. I. On the theory of multivalued integration. Some properties of the generalized convolution integral. (Russian) **97i:49008**
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49K25 Problems involving equations with retarded arguments [see also 34K35]

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Huang, Wen Hua A generalized global extremum theorem. (Chinese. English and Chinese summaries)
Idczak, Dariusz Necessary optimality conditions for a nonlinear continuous n-dimensional Roesser model. (English summary) **97f:49030**
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Kutateladze, S. S. Nonstandard tools for convex analysis. (English summary) **97m:49024**
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Perán Mazón, Juan (*with* Novo Sanjurjo, Vicente) Characterization of the support hyperplanes of the subsets of a Hilbert space. (Spanish) (*see* **97g:00019**)
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Chou, Chin Ch'êng (*with* Li, Xinbao; Ng, Kung Fu; Shi, Shuzhong) Optimality conditions for lower semi-continuous functions. (English summary) **97h:49023**
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Elhilali Alaoui, Ahmed *see* **Amahroq, T.**, **97e:49011**
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— (*with* Nakagiri, Shin-ichi) Optimal control of nonlinear hyperbolic distributed systems with damping terms. (Japanese) (*see* **97d:00030**)
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Udrişte, Constantin (*with* Dogaru, Oltin; Ţevy, I.) Open problems in extrema theory. (English and Romanian summaries) **97h:90086**
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Zaslavski, Alexander J. Turnpike theorem for a class of set-valued mappings. (English summary) **97a:90014**
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49K30 Optimal solutions belonging to restricted classes

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Joó, István (*with* Nguyen Van Su) Controllability of Lipschitzian discrete-time multifunction system with restrained controls in finite-dimensional space.
Khalfov, E. N. Estimates for the number of extrema of an extremal control integral in a time-optimality problem for a class of bilinear systems. (Russian. Russian summary) **97b:49005**
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Chu, Liang-Ju On Fan's minimax inequality. (English summary) **97d:49009**
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Fang, Shu Cherng (*with* Wu, Soon-Yi) Solving min-max problems and linear semi-infinite programs. (English summary) **97g:90132**
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Kimura, Yutaka (*with* Kuroiwa, Daishi; Tanaka, Kensuke) An equilibrium theorem for subdifferential. (Japanese) (*see* **97d:90005**)
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— (*with* Wu, Xian^3; Wang, Da Cheng) A new minimax theorem and its applications. (Chinese. English and Chinese summaries) **97d:49012**
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49K40 Sensitivity of optimal solutions in the presence of perturbations

Balayadi, Aziza (*with* Sonntag, Yves; Zălinescu, Constantin) Stability of constrained optimization problems. **97f:49031**
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— (*with* Cominetti, Roberto) Perturbed optimization in Banach spaces. II. A theory based on a strong directional constraint qualification. (English summary) **97d:49026**
— (*with* Cominetti, Roberto) Perturbed optimization in Banach spaces. III. Semi-infinite optimization. (English summary) **97h:49034**
Borwein, Jonathan M. (*with* Zhu, Qiji J.) Variational analysis in nonreflexive spaces and applications to control problems with L^1 perturbations. **97k:49040**
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Ivanov, G. E. Optimal guaranteed control of linear systems in the presence of perturbations. (Russian. Russian summary) **97h:49035**
Kogut, P. Ĭ. Higher-order asymptotics of the solutions of the problem of the optimal control of a distributed system with rapidly oscillating coefficients. (Ukrainian. English and Ukrainian summaries)
Komiya, Hidetoshi Inverse of the Berge maximum theorem. (English summary) **97e:49024**
Kreml'ov, A. G. Approximation of the optimal solution in the minimax problem of the control of a singularly perturbed quasilinear system. (Russian. Russian summary) **97c:49030**
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— (*with* Maurer, Helmut) Sensitivity analysis for parametric control problems with control-state constraints. (English summary) **97d:49028**
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Mentagui, D. Stability results of a class of well-posed optimization problems. (English summary) **97g:49033**
Moussaoui, Mohammed (*with* Seeger, Alberto) Epsilon-maximum principle of Pontryagin type and perturbation analysis of convex optimal control problems. (English summary) **97e:49025**
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Roxin, Emilio O. Linearization and approximation of control systems. (English summary) (*see* **97a:00029**)
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Benlarbi, Miloud Caractère lipschitzien et dérivabilité directionnelle des solutions de systèmes d'équations et d'inéquations paramétrés. (English and French summaries) [Lipschitz character and directional derivability of the solutions of systems of parametrized equations and inequalities] **97h:90069**
Bonnans, Joseph Frédéric (*with* Ioffe, Alexandre D.) Second-order sufficiency and quadratic growth for nonisolated minima. (English summary) **97f:90094**
— (*with* Sulem, Agnès) Pseudopower expansion of solutions of generalized equations and constrained optimization problems. (English summary) **97c:90119**
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Galtsgori, V. G. Limit Hamilton-Jacobi-Isaacs equations for singularly perturbed zero-sum differential games. (English summary) **97i:90127**
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Levitin, E. S. Optimization problems with extremal constraints. I. General concepts, formulation and basic problems. (Russian. Russian summary) **97a:90088**
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Maurer, Helmut (*with* Augustin, Dirk) Second order sufficient conditions and sensitivity analysis for the controlled Rayleigh problem. (English summary) **97m:49020**
Minchenko, L. I. (*with* Sakolchik, P. P.) Hölder behavior of optimal solutions and directional differentiability of marginal functions in nonlinear programming. (English summary) **97f:90096**
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Obata, Tsuneshi (*with* Shiraishi, Shunsuke) Optimality and sensitivity analysis of invex optimization problems. (Japanese. English summary)
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Plotnikov, V. A. Asymptotic methods in the theory of differential equations with discontinuous and multi-valued right-hand sides. **97e:34029**
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49K45 Problems involving randomness [see also 93E20]

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Bulychev, Yu. G. (*with* Manin, A. A.) Synthesis of the suboptimal control of stochastic systems based on a prediction model. (Russian. Russian summary) **97h:49037**
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Hibey, Joseph L. *see* **Charalambous, Charalambos D., 97k:49042**
Kabanov, Yu. M. (*with* Runggaldier, Wolfgang J.) On control of two-scale stochastic systems with linear dynamics in the fast variables. (English summary) **97m:49027**
Kenderov, P. S. (*with* Lucchetti, Roberto) Generic well posedness of sup inf problems. (English summary) **97h:49038**
Kohlmann, Michael (*with* Renner, Peter) Optimal control of diffusions: a verification theorem for viscosity solutions. (English summary) **97k:49043**
Kovaleva, A. S. Optimal control problems for nonlinear oscillatory systems with random perturbations. (English summary) (*see* **97f:70002**)
Kulczycki, Piotr Almost certain time-optimal positional control. (English summary) **97a:49039**
Li, Xiao Jun A convex analysis method for stochastic control problems in Hilbert spaces. (Chinese. English and Chinese summaries)
Lim, Andrew E. B. (*with* Moore, John Barratt; Faĭbusovich, L. E.) Separation theorem for linearly constrained LQG optimal control. (English summary) **97h:49039**
Lucchetti, Roberto *see* **Kenderov, P. S., 97h:49038**
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Mezerdi, Brahim *see* **Bahlali, Khaled; et al., 97j:49034**
Moore, John Barratt *see* **Lim, Andrew E. B.; et al., 97h:49039**
Morozan, T. Dual linear quadratic problem for linear control systems with jump Markov perturbations. **97g:49034**
Øksendal, Bernt (*with* Szabó, Péter[3]) The stochastic maximum principle—a brief survey and an application. (English summary) **97d:49030**
Ouknine, Youssef *see* **Bahlali, Khaled; et al., 97j:49034**
Renner, Peter *see* **Kohlmann, Michael, 97k:49043**
Runggaldier, Wolfgang J. *see* **Kabanov, Yu. M., 97m:49027**
Szabó, Péter[3] *see* **Øksendal, Bernt, 97d:49030**
Valeev, K. G. (*with* Dil'muradov, N.) Necessary conditions for the optimality of a solution of a system of nonlinear differential equations that depend on a semi-Markov random process. (Russian. English summary)
Zhou, Xun Yu Sufficient conditions of optimality for stochastic systems with controllable diffusions. (English summary) **97f:49035**

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Agarwal, Ravi Prakash (*with* Shaĭkhet, L. E.) Linear square optimal control problem for stochastic difference equations with unknown parameters. (English summary)
Aggoun, Lakhdar *see* **Elliott, Robert James, 97m:93078**
Ahmed, Nasir Uddin (*with* Zabczyk, Jerzy) Partially observed optimal controls for nonlinear infinite-dimensional stochastic systems. (English summary) **97j:93059**
Basak, Gopal K. (*with* Borkar, Vivek S.; Ghosh, Mrinal K.) Ergodic control of degenerate diffusions. (English summary) **97j:93061**
Borkar, Vivek S. *see* **Basak, Gopal K.; et al., 97j:93061**
Charalambous, Charalambos D. (*with* Hibey, Joseph L.) On the application of minimum principle for solving partially observable risk-sensitive control problems. (English summary) **97a:93068**
Chen, Goong *see* **Chen, Guanrong; et al., 97g:93001**
Chen, Guanrong (*with* Chen, Goong; Hsu, Shih-Hsun) ★ Linear stochastic control systems. (English summary) **97g:93001**
van Dijk, Nico M. (*with* Hordijk, Arie) Time-discretization for controlled Markov processes. II. A jump and diffusion application. **97c:93088**
Dil'muradov, N. On the synthesis of an optimal control for a system of nonlinear differential equations that depend on a semi-Markov process. (Russian. English, Russian and Uzbek summaries)
Duan, Xing Min (*with* Tian, Cheng Ke) Optimal control of continuous-time systems with colored noise. (Chinese. English and Chinese summaries)
Eisenberg, Bennett (*with* Stengle, Gilbert) Minimizing the probability of a tie for first place. (English summary) **97c:60130**
El Ghaoui, Laurent *see* **Rami, Mustapha Ait**
Elliott, Robert James (*with* Yang, Hailiang) Forward and backward equations for an adjoint process. (English summary) **97m:93077**
— (*with* Aggoun, Lakhdar) Measure change techniques in optimal control. (English summary) **97m:93078**
Ghosh, Mrinal K. *see* **Basak, Gopal K.; et al., 97j:93061**
Golan, Amos (*with* Judge, George; Karp, Larry) A maximum entropy approach to estimation and inference in dynamic models, or, Counting fish in the sea using maximum entropy. (English summary) **97a:49046**
Gowda, M. Seetharama (*with* Sznajder, Roman) On the Lipschitzian properties of polyhedral multifunctions. (English summary) **97g:90139**
Hibey, Joseph L. *see* **Charalambous, Charalambos D., 97a:93068**
Hinrichsen, D. (*with* Pritchard, A. J.) Stability radii of systems with stochastic uncertainty and their optimization by output feedback. (English summary) **97i:93100**
Hordijk, Arie *see* **van Dijk, Nico M., 97c:93088**
Hsu, Shih-Hsun *see* **Chen, Guanrong; et al., 97g:93001**
Judge, George *see* **Golan, Amos; et al., 97a:49046**
Jumarie, Guy A practical variational approach to stochastic optimal control via state moment equations. (English summary) **97c:93089**
Karp, Larry *see* **Golan, Amos; et al., 97a:49046**
Karrakchou, Jamila *see* **Rachik, Mostafa; et al., 97k:93073**
Królikowski, Andrzej Steady-state optimal discrete-time control of first-order systems with actuator noise variance linearly related to actuator signal variance. (English summary)
Liptser, R. Sh. (*with* Runggaldier, Wolfgang J.; Taksar, Michael I.) Deterministic approximation for stochastic control problems. (English summary) **97a:93071**
Namir, A. *see* **Rachik, Mostafa; et al., 97k:93073**
Plunovskiĭ, A. B. A multicriterial model for the optimal control of a stochastic linear system. (Russian. Russian summary) **97m:90075**
Pritchard, A. J. *see* **Hinrichsen, D., 97i:93100**
Pukhlikov, A. V. Fredholm determinants and the Newton method in problems of the control of distributions. (Russian. Russian summary) **97k:93072**
— Singular regimes in problems of the control of distributions. I. Scalar controls. (Russian. Russian summary) **97m:93080**
Rachik, Mostafa (*with* Karrakchou, Jamila; Namir, A.) Optimal control for linear stochastic systems with delays in the state and control. (English summary) **97k:93073**
Rami, Mustapha Ait (*with* El Ghaoui, Laurent) LMI optimization for nonstandard Riccati equations arising in stochastic control. (English summary)
Rao, A. N. V. (*with* Tsokos, Chris P.) Near-optimal control of a class of stochastic systems under integral constraints. (English summary) (*see* **97a:00029**)
Runggaldier, Wolfgang J. *see* **Liptser, R. Sh.; et al., 97a:93071**
Savastyuk, S. V. (*with* Šiljak, Dragoslav D.) Optimal decentralized control for stochastic dynamic systems. (English summary) **97b:93101**
Shaĭkhet, L. E. *see* **Agarwal, Ravi Prakash**
Shao, Jian (*with* Yu, Xin Hui) Absolute continuity of marginal functions. (Chinese. English and Chinese summaries)
Šiljak, Dragoslav D. *see* **Savastyuk, S. V., 97b:93101**
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Wang, Kang Ning Optimal control of stochastic distributed parameter systems. (Chinese. English and Chinese summaries)
Yang, Hailiang *see* **Elliott, Robert James, 97m:93077**
Yatsenko, V. A. A quantum-mechanical analogue of the Bellman optimality principle for controlled dynamical systems. (Russian. Russian summary) **97m:93082**
Yu, Xin Hui *see* **Shao, Jian**
Zabczyk, Jerzy *see* **Ahmed, Nasir Uddin, 97j:93059**

49Lxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming

49L10 Free problems and problems involving partial differential equations

Items with secondary classifications in 49L10

Barbu, Viorel Approximation Hamilton-Jacobi equations and suboptimal feedback controllers. **97j:49035**
Eggermont, P. P. B. (*with* LaRiccia, V. N.) Maximum penalized likelihood estimation and smoothed EM algorithms for positive integral equations of the first kind. (English summary) **97j:65201**
LaRiccia, V. N. *see* **Eggermont, P. P. B., 97j:65201**

49L20 Dynamic programming method

Barbu, Viorel Approximation Hamilton-Jacobi equations and suboptimal feedback controllers. **97j:49035**
Barron, Emmanuel N. (*with* Liu, Wenxiong) Semicontinuous solutions for Hamilton-Jacobi equations and the L^∞-control problem. (English summary) **97k:49044**

Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) Infinite-dimensional Hamilton-Jacobi equations and Dirichlet boundary control problems of parabolic type. (English summary) **97g:49035**
(Del Moral, Pierre) *see* **Kolokol'tsov, V. N.**
Dyke, S. J. *see* **Spencer, Billie F., Jr.; et al., 97f:49036**
Ferreyra, G. (*with* Hijab, O.) Smooth fit for some Bellman equations. (English summary) **97j:49036**
Hijab, O. *see* **Ferreyra, G., 97j:49036**
Kolokol'tsov, V. N. Stochastic Hamiltonian-Jacobi-Bellman equation and stochastic Hamiltonian systems. (English summary) **97g:49036**
— (*with* Maslov, V. P.) ★ Idempotent analysis and its applications.
— *see also* **Maslov, V. P., 97d:49031**
Liu, Wenxiong *see* **Barron, Emmanuel N., 97k:49044**
Luo, Zong Jun A 2-dimensional integer bottleneck problem and an algorithm for it. (Chinese. English and Chinese summaries)
Maslov, V. P. (*with* Kolokol'tsov, V. N.) ★ Идемпотентный анализ и его применение в оптимальном управлении. (Russian. English and Russian summaries) [Idempotent analysis and its application in optimal control] **97d:49031**
— *see also* **Kolokol'tsov, V. N.**
(Nazaikinskiĭ, V. E.) *see* **Kolokol'tsov, V. N.**
Popa, Cătălin A Trotter-type scheme for the generalized gradient of the optimal value function. (English summary) **97b:49025**
Popescu, Mihai-Emilian Application of the Hamilton-Jacobi theory in optimal nonsingular control. (English summary)
Sain, M. K. *see* **Spencer, Billie F., Jr.; et al., 97f:49036**
Spencer, Billie F., Jr. (*with* Timlin, T. L.; Sain, M. K.; Dyke, S. J.) Series solution of a class of nonlinear optimal regulators. (English summary) **97f:49036**
Święch, Andrzej Sub- and superoptimality principles of dynamic programming revisited. **97b:49026**
Tessitore, Maria Elisabetta *see* **Cannarsa, Piermarco, 97g:49035**
Timlin, T. L. *see* **Spencer, Billie F., Jr.; et al., 97f:49036**
Zhou, Xun Yu Deterministic near-optimal controls. II. Dynamic programming and viscosity solution approach. (English summary) **97h:49040**

Items with secondary classifications in 49L20

Attouch, Hedy (*with* Cominetti, Roberto) A dynamical approach to convex minimization coupling approximation with the steepest descent method. (English summary) **97e:90112**
Barbu, Viorel Optimal feedback controllers for periodic convex control problems. **97a:49031**
Barron, Emmanuel N. (*with* Jensen, Robert R.; Liu, Wenxiong) Hopf-Lax-type formula for $u_t + H(u, Du) = 0$. (English summary) **97a:35030**
— (*with* Jensen, Robert R.; Liu, Wenxiong) Optimal control of the blowup time of a diffusion. (English summary) **97g:93078**
Brock, F. (*with* Ferone, Vincenzo; Kawohl, Bernd) A symmetry problem in the calculus of variations. (English summary) **97i:49002**
Camilli, Fabio (*with* Falcone, Maurizio) Approximation of optimal control problems with state constraints: estimates and applications. (English summary) **97j:49037**
Cardaliaguet, Pierre Régularité des surfaces semi-perméables en théorie du contrôle et applications. (English and French summaries) [Regularity of semipermeable surfaces in control theory and application of results] **97c:49022**
Clarke, F. H. A proximal characterization of the reachable set. (English summary) **97a:93008**
Cominetti, Roberto *see* **Attouch, Hedy, 97e:90112**
Falcone, Maurizio *see* **Camilli, Fabio, 97j:49037**
Fang, Hua Jing *see* **Li, Sheng Ping; et al.**
Ferone, Vincenzo (*with* Posteraro, Maria Rosaria; Volpicelli, R.) An inequality concerning rearrangements of functions. **97f:35027**
— *see also* **Brock, F.; et al., 97i:49002**
Gozzi, Fausto Global regular solutions of second order Hamilton-Jacobi equations in Hilbert spaces with locally Lipschitz nonlinearities. (English summary) **97d:47081**
Hou, Chao Zhen *see* **Li, Sheng Ping; et al.**
Imura, Jun-ichi (*with* Sugie, Toshiharu; Yoshikawa, Tsuneo) A Hamilton-Jacobi inequality approach to the strict H_∞ control problem of nonlinear systems. (English summary) **97b:93031**
— (*with* Yoshikawa, Tsuneo) Characterization of some gain conditions via the Hamilton-Jacobi inequality. (English summary) **97j:93021**
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Kawohl, Bernd *see* **Brock, F.; et al., 97i:49002**
Li, Sheng Ping (*with* Fang, Hua Jing; Hou, Chao Zhen; Wu, Jun) A nonlinear stochastic control algorithm using incomplete information about states. (Chinese. English and Chinese summaries)
Liu, Wenxiong *see* **Barron, Emmanuel N.; et al., 97a:35030** *and* **97g:93078**
Motta, Monica (*with* Rampazzo, Franco) Dynamic programming for nonlinear systems driven by ordinary and impulsive controls. (English summary) **97c:49037**
Posteraro, Maria Rosaria *see* **Ferone, Vincenzo; et al., 97f:35027**
Rampazzo, Franco *see* **Motta, Monica, 97c:49037**
Streufert, Peter A. Biconvergent stochastic dynamic programming, asymptotic impatience, and "average" growth. (English summary) **97d:90022**
Sugie, Toshiharu *see* **Imura, Jun-ichi; et al., 97b:93031**
Sun, Min Alternating direction algorithms for solving Hamilton-Jacobi-Bellman equations. (English summary) **97i:49034**
Taras'ev, A. M. Solution of evolutionary games in the framework of the theory of Hamilton-Jacobi equations. (Russian. Russian summary) **97c:90152**
Volpicelli, R. *see* **Ferone, Vincenzo; et al., 97f:35027**
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Yoshikawa, Tsuneo *see* **Imura, Jun-ichi; et al., 97b:93031** *and* **97j:93021**

49L25 Viscosity solutions

Attouch, Hedy Viscosity solutions of minimization problems. (English summary) **97h:49041**
Aubin, Jean-Pierre (*with* Frankowska, Halina) Set-valued analysis, viability theory and partial differential inclusions. (English and French summaries) (*see* **97a:00029**)
Baras, J. S. *see* **James, Matthew R., 97f:49038**
Barron, E. N. *see* **James, Matthew R., 97f:49038**
Borwein, Jonathan M. (*with* Zhu, Qiji J.) Viscosity solutions and viscosity subderivatives in smooth Banach spaces with applications to metric regularity. (English summary) **97g:49037**
Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) Cauchy problem for Hamilton-Jacobi equations and Dirichlet boundary control problems of parabolic type. (English summary) **97c:49032**
Cârjă, Ovidiu Lower semicontinuous solutions for a class of Hamilton-Jacobi-Bellman equations. (English summary) **97f:49037**
Chentsov, A. G. *see* **Subbotin, A. I., 97k:49045**
Dorroh, J. R. (*with* Ferreyra, G.) Piecewise C^1 viscosity solutions of some Bellman equations. (English summary)
Ferreyra, G. *see* **Dorroh, J. R.**
Frankowska, Halina *see* **Aubin, Jean-Pierre, (97a:00029)**
Grigorjeva, Svetlana V. (*with* Taras'ev, A. M.; Ushakov, V. N.; Uspenskiĭ, A. A.) Constructions of nonsmooth analysis in numerical methods for solving Hamilton-Jacobi equations. **97g:49038**
Hong, Bum Il A stability result for Dirichlet problem of the first-order Hamilton-Jacobi equations. **97b:49027**
Ishii, Hitoshi (*with* Koike, Shigeaki) A new formulation of state constraint problems for first-order PDEs. (English summary) **97a:49040**
Ishii, Katsuyuki Viscosity solutions of nonlinear second-order elliptic PDEs associated with impulse control problems. II. **97a:49041**
— (*with* Yamada, Naoki) Some results on the viscosity solutions of fully nonlinear equations containing non-local terms. (English summary) (*see* **97a:00029**)
James, Matthew R. (*with* Baras, J. S.) Partially observed differential games, infinite-dimensional Hamilton-Jacobi-Isaacs equations, and nonlinear H_∞ control. (English summary) **97f:49038**
Koike, Shigeaki On the Bellman equations with varying control. (English summary) **97f:49039**
— *see also* **Ishii, Hitoshi, 97a:49040**
McEneaney, William M. Robust control and differential games on a finite time horizon. (English summary) **97f:49040**
Silin, D. B. Multivalued integration and viscosity solutions of the Hamilton-Jacobi equation. (Russian. Russian summary) **97b:49028**
Subbotin, A. I. (*with* Chentsov, A. G.) An iterative procedure for constructing minimax and viscosity solutions of the Hamilton-Jacobi equations. (Russian) **97k:49045**
— Generalized solutions of partial differential equations of the first order. The invariance of graphs relative to differential inclusions. **97d:49032**
— Minimax solutions of first-order partial differential equations. (Russian) **97g:49039**
Taras'ev, A. M. *see* **Grigorjeva, Svetlana V.; et al., 97g:49038**
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Ahmed, Nasir Uddin *see* **Zhu, Qingxin, 97a:35249**
Akian, Marianne (*with* Menaldi, José Luis; Sulem, Agnès) On an investment-consumption model with transaction costs. (English summary) **97j:90005**
Alvarez, Olivier (*with* Tourin, Agnès) Viscosity solutions of nonlinear integro-differential equations. (English and French summaries) **97d:35023**
Arisawa, Mariko (*with* Lions, Pierre-Louis) Continuity of admissible trajectories for state constraints control problems. **97h:49005**
Aubin, Jean-Pierre (*with* Frankowska, Halina) The viability kernel algorithm for computing value functions of infinite horizon optimal control problems. (English summary) **97e:49003**
Aviles, Patricio (*with* Giga, Yoshikazu) The distance function and defect energy. (English summary) **97g:49056**
Basak, Gopal K. (*with* Borkar, Vivek S.; Ghosh, Mrinal K.) Ergodic control of degenerate diffusions. (English summary) **97j:93061**
Bellettini, G. (*with* Paolini, Maurizio) Some results on minimal barriers in the sense of De Giorgi applied to driven motion by mean curvature. (English and Italian summaries) **97b:49038**
Bogatyrev, A. V. (*with* Pyatnitskiĭ, E. S.) Necessary conditions for optimality in terms of the generalized Hamilton-Jacobi-Bellman equations with phase constraints. (Russian) **97k:49036**
Borkar, Vivek S. *see* **Basak, Gopal K.; et al., 97j:93061**
Camilli, Fabio Computation of the $\mathscr{H}_\infty$ norm for nonlinear systems: a convergence result. (English summary) **97i:93035**
Cannarsa, Piermarco (*with* Sinestrari, Carlo) Convexity properties of the minimum time function. (English summary) **97f:49032**
Caselles, Vicent (*with* Sbert, C.) What is the best causal scale space for three-dimensional images? (English summary) **97e:68142**
Cranny, Timothy R. On the behaviour of the sup- and inf-convolutions of a function near the boundary. (English summary) **97f:35066**
Dacorogna, Bernard (*with* Marcellini, Paolo) Théorèmes d'existence dans les cas scalaire et vectoriel pour les équations de Hamilton-Jacobi. (English and French summaries) [Existence theorems for Hamilton-Jacobi equations in the scalar and the vectorial cases] **97a:35032**
Davis, Mark H. A. (*with* Farid, Mohammad) A target recognition problem: sequential analysis and optimal control. (English summary) **97k:49018**
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Hermes, Henry Resonance, stabilizing feedback controls, and regularity of viscosity solutions of Hamilton-Jacobi-Bellman equations. (English summary) **97h:93070**
Idogawa, Tomoyuki On numerical results for the generalized curve shortening equations. (English summary) (*see* **97f:00023**)
Ishii, Hitoshi Viscosity solutions of nonlinear partial differential equations [translation of Sūgaku **46** (1994), no. 2, 144–157; MR 95j:49002]. (*see* **97g:00026**)
James, Matthew R. (*with* Elliott, Robert James) Risk-sensitive and risk-neutral control for continuous-time hidden Markov models. (English summary) **97b:93099**
Joseph, K. T. (*with* Veerappa Gowda, G. D.) Max-min representation of solutions of Hamilton-Jacobi equation in the quarter plane. (English summary) **97c:35028**
Kohlmann, Michael (*with* Renner, Peter) Optimal control of diffusions: a verification theorem for viscosity solutions. (English summary) **97k:49043**
Licht, C. (*with* Michaille, G.) Sensitivity analysis and viscosity method for some problems of the calculus of variations. (English summary) (*see* **97g:49001**)
Lions, Pierre-Louis *see* **Arisawa, Mariko**, **97i:49005**
Marcellini, Paolo *see* **Dacorogna, Bernard**, **97a:35032**
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Nguyễn Hoàng On the smoothness of global solutions of Hamilton-Jacobi equations. (English summary) **97c:35029**
— *see also* **Trần Đứ'c Vân; et al.**, **97c:35030**
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Sethian, James A. A fast marching level set method for monotonically advancing fronts. (English summary) **97c:65171**
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Soravia, Pierpaolo $\mathscr{H}_\infty$ control of nonlinear systems: differential games and viscosity solutions. (English summary) **97a:93025**
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Trần Đứ'c Vân (*with* Thanh, Mai Duc; Nguyễn Hoàng) On the representation of Lipschitz global solutions of the Cauchy problem for Hamilton-Jacobi equations. **97c:35030**
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Xu, Zongyun Time optimal impulse control problems. (English summary) **97b:49006**
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Zhang, Qing[1] (*with* Yin, Gang George) Turnpike sets in stochastic manufacturing systems with finite time horizon. (English summary) **97b:93102**
Zhu, Qingxin (*with* Ahmed, Nasir Uddin) Some results on parabolic equations in Banach space. **97a:35249**

49Mxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

49M05 Methods based on necessary conditions

Barkov, B. V. An iterative algorithm for solving a boundary value problem of optimal control. (Russian. Russian summary) **97b:49029**
Bibi, M. O. Support method for solving a linear-quadratic problem with polyhedral constraints on control. (English summary) **97k:49046**
Doležal, Jaroslav (*with* Fidler, Jiří) On the usage and applications of parameter optimization software Op[II]A in constrained optimal control. (English summary) (*see* **97a:00029**)
Ėfendiev, V. V. *see* **Zheltikov, V. P.**, **97g:49041**
Elnagar, Gamal N. (*with* Razzaghi, Mohsen) An alternative method for a classical problem in the calculus of variations. (English summary) **97g:49040**
Fabien, Brian C. Numerical solution of constrained optimal control problems with parameters. (English summary) **97e:49026**
Fidler, Jiří *see* **Doležal, Jaroslav**, (**97a:00029**)
Razzaghi, Mohsen *see* **Elnagar, Gamal N.**, **97g:49040**
Rouff, Marc Analytical computation of differential equations involved in dynamical nonlinear optimal problems. (English summary) **97k:49047**
Strygin, Vadim V. The parabolic spline collocation method for solving an optimal control problem with aftereffect. (Russian)
Teo, Kok Lay A unified computational approach to optimal control problems. (English summary) (*see* **97a:00029**)
Zheltikov, V. P. (*with* Ėfendiev, V. V.) Averaging of boundary value problems in the control of a standard system with delay. (Russian. English and Ukrainian summaries) **97g:49041**

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Bock, H. G. *see* **Hoàng Xuân Phú; et al.**, **97d:49022**
Hoàng Xuân Phú (*with* Bock, H. G.; Schlöder, J. P.) Extremal solutions of some constrained control problems. (English summary) **97d:49022**
Kapustyan, V. E. Optimal control of a thermal field in thin bodies. Local constraints on control. (Russian. English and Ukrainian summaries)
Kaya, C. Yalçin (*with* Noakes, J. Lyle) Computations and time-optimal controls. (English summary)
Kiselev, Yu. N. (*with* Orlov, M. V.) The potential method in a linear time-optimality problem. (Russian. Russian summary) **97j:49003**
Noakes, J. Lyle *see* **Kaya, C. Yalçin**
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Srochko, V. A. ★ Вариационный принцип максимума и методы линеаризации в задачах оптимального управления. (Russian. Russian summary) [The variational maximum principle and linearization methods in optimal control problems] **97b:49001**
Torres, L. (*with* Turi, Janos) On numerical solutions of an optimal control problem for nonlinear neutral systems. (English summary) (*see* **97i:34003**)
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49M07 Gradient methods

Dunn, J. C. On L^2 sufficient conditions and the gradient projection method for optimal control problems. (English summary) **97d:49033**
Farag, M. H. The gradient projection method for solving an optimal control problem. (English summary)

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Kutuzov, A. A. *see* **Bobylëv, N. A.**, **97e:90113**

49M10 Methods of steepest descent type

Chalabi, Z. S. *see* **Zhou, Wen Wen**, **97f:49041** *and* **97f:49042**
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Rabinowitz, Paul H. Multibump solutions for an almost periodically forced singular Hamiltonian system. (English summary) **97a:58031**

49M15 Methods of Newton-Raphson, Galerkin and Ritz types

Dębińska-Nagórska, Anna (*with* Just, Andrzej; Stempień, Zdzisław) On some optimisation problem in a set of solutions of nonlinear operator equation in Banach spaces. Galerkin approximation. (English summary)
Just, Andrzej *see* **Dębińska-Nagórska, Anna; et al.**
Lukšan, Ladislav (*with* Vlček, Jan) Optimization of dynamical systems. (English summary) **97h:49042**
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Burton, T. A. Boundedness and periodicity in integral and integro-differential equations. (English summary) **97b:45010**
Dontchev, Asen L. Local convergence of the Newton method for generalized equations. (English and French summaries) **97c:90102**
Freund, Roland W. (*with* Jarre, Florian) A QMR-based interior-point algorithm for solving linear programs. (English summary) **97m:90051**
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Jiang, Cheng Shun (*with* Wang, Shu Bin; Huang, Shu Xiang) Existence and blow-up of solutions to a class of integro-differential equations. (Chinese. English and Chinese summaries) **97d:45015**
Pang, Jong-Shi Complementarity problems. (English summary) **97a:90095**
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49M20 Methods of relaxation type

Items with secondary classifications in 49M20

Mizukami, Koichi *see* **Vasil'eva, O. O.**, **97c:49024**
Vasil'eva, O. O. (*with* Mizukami, Koichi) Optimal control of a boundary value problem. (Russian) **97c:49024**

49M25 Finite difference methods

Benamou, Jean-David Décomposition de domaine pour le contrôle de systèmes gouvernés par des équations d'évolution. (English and French summaries) [Domain decomposition for the control of systems governed by evolution equations] **97m:49028**
Camilli, Fabio (*with* Falcone, Maurizio) Approximation of optimal control problems with state constraints: estimates and applications. (English summary) **97j:49037**
Dontchev, Asen L. Discrete approximations in optimal control. (English summary) **97h:49043**
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Elnagar, Gamal N. State-control spectral Chebyshev parameterization for linearly constrained quadratic optimal control problems. (English summary) **97m:49029**
Falcone, Maurizio (*with* Rosace, R.) Discrete-time approximation of optimal control problems for delayed equations. (English summary) **97i:49032**
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Gunzburger, Max D. (*with* Hou, LiSheng) Finite-dimensional approximation of a class of constrained nonlinear optimal control problems. (English summary) **97b:49030**
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Kenzhegulov, B. Z. (*with* Ramazanov, T. S.) Numerical solution of an optimal control problem with a delta-shaped source. (Russian. English, Russian and Kazakh summaries)
Lepp, Riho On approximation of optimal controls with discontinuous strategies. (English and Estonian summaries) **97i:49033**
Morozkin, N. D. On the convergence of finite-dimensional approximations in the problem of optimal one-dimensional heating taking into account phase restrictions. (Russian. Russian summary) **97h:49044**
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Bardi, Martino (*with* Bottacin, Sandra; Falcone, Maurizio) Convergence of discrete schemes for discontinuous value functions of pursuit-evasion games. (English summary) **97g:90199**
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Gong, Liu Tang (*with* Fei, Pu Sheng) Parallel implementation of the augmented Lagrange multiplier algorithm for PDE control problems. (Chinese. English and Chinese summaries)
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Hendrickson, Erik (*with* Lasiecka, Irena) Finite-dimensional approximations of boundary control problems arising in partially observed hyperbolic systems. (English summary) **97b:93048**
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49M27 Decomposition methods

Kalinin, A. I. (*with* Kirillova, F. M.; Kostyukova, O. I.) Optimization of systems with multidimensional controls according to criteria that are invariant with respect to some of the control actions. (Russian. Russian summary) **97b:49031**
Kirillova, F. M. *see* **Kalinin, A. I.; et al., 97b:49031**
Kostyukova, O. I. *see* **Kalinin, A. I.; et al., 97b:49031**
Sun, Min Alternating direction algorithms for solving Hamilton-Jacobi-Bellman equations. (English summary) **97i:49034**

49M29 Multiplier methods

Farag, M. H. (*with* Farag, S. H.) On the derivation of gradient formulae by solving the conjugated boundary value problem for an optimal control problem. (English summary) **97h:49047**
Farag, S. H. *see* **Farag, M. H., 97h:49047**
Grozdev, S. Augmented Lagrangian for optimal control problems of parabolic systems. (English and Bulgarian summaries) **97g:49043**
Ito, Kazufumi (*with* Kunisch, Karl) Augmented Lagrangian-SQP methods for nonlinear optimal control problems of tracking type. (English summary) **97b:49032**
Kunisch, Karl *see* **Ito, Kazufumi, 97b:49032**

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Yang, Yu Fei The augmented Lagrange functional method applied to the parameter identification of multidimensional parabolic equations. (Chinese. English and Chinese summaries) **97i:35188**

49M30 Other methods, not based on necessary conditions (penalty function, etc.)

Danilin, A. R. Regularization of nonlinear control problems under perturbations of constraints. (Russian) **97h:49048**
Fabien, Brian C. An extended penalty function approach to the numerical solution of constrained optimal control problems. (English summary)
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Habibi, Mohammad *see* **Razzaghi, Mohsen, 97e:49027**
Kapustyan, V. E. Asymptotics of locally bounded controls in optimal parabolic problems. (Russian. English and Ukrainian summaries) **97d:49035**
Kim, Jong Yun Convergence of a difference approximation and regularization for a problem of the optimal control of a system governed by semilinear second-order elliptic equations. I. (Korean. English summary)
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Redmond, J. (*with* Parker, Gordon G.) Actuator placement based on reachable set optimization for expected disturbance. (English summary) **97c:49033**

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Cai, Yuan Li (*with* Li, Peng) A novel method for solving discrete-time optimal control problems by using normal networks. (Chinese. English and Chinese summaries)
Fabien, Brian C. Numerical solution of constrained optimal control problems with parameters. (English summary) **97e:49026**
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Izhutkin, V. S. (*with* Petropavlovskiĭ, M. V.) Reduced direction methods based on a modified Lagrange function for a nonlinear programming problem. (Russian) **97f:90087**
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Miheev, Sergey Evgenievich Contraction of attainability domains in a game of pursuit. (*see* 97g:90005)
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49M37 Nonlinear programming [see also 90C30]

Elnagar, Gamal N. (*with* Kazemi-Dehkordi, M. A.) Numerical solvability of nonlinear problems of the calculus of variations. (English summary) **97f:49043**
Jennings, L. S. (*with* Wong, Kar Hung; Teo, Kok Lay) Optimal control computation to account for eccentric movement. (English summary) **97h:49049**
Kazemi-Dehkordi, M. A. *see* **Elnagar, Gamal N., 97f:49043**
Kummer, Bernd Approximation of multifunctions and superlinear convergence. (English summary) **97d:49036**
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Andronov, V. G. *see* **Belousov, E. G., 97b:90084**
Belousov, E. G. (*with* Andronov, V. G.) On the reducibility of a general convex programming problem to an unconditional extremum problem. (Russian) **97b:90084**
Bonnans, Joseph Frédéric (*with* Ioffe, Alexandre D.) Second-order sufficiency and quadratic growth for nonisolated minima. (English summary) **97f:90094**
— (*with* Sulem, Agnès) Pseudopower expansion of solutions of generalized equations and constrained optimization problems. (English summary) **97c:90119**
van de Fliert, B. W. (*with* van Groesen, E.; de Roo, R.; de Vries, R. W.) Numerical algorithm for the calculation of nonsymmetric dipolar and rotating monopolar vortex structures. (English summary) **97d:76008**
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Hiriart-Urruty, J.-B. Conditions for global optimality. (English summary) **97d:90088**
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Jiang, Houyuan Unconstrained minimization approaches to nonlinear complementarity problems. (English summary) **97h:90075**
Jo, Cheong Lai (*with* Kim, Do Sang; Lee, Gue Myung) Optimality for nonlinear programs containing n-set functions. (English summary) **97f:90078**
Kärkkäinen, Tommi (*with* Neittaanmäki, Pekka; Niemistö, A.) Numerical methods for nonlinear inverse problems. (English summary) **97h:65139**
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Korycki, J. On a distributed implementation of a decomposition method for multistage linear stochastic programs. (English summary) **97d:90061**
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Still, Georg (*with* Streng, M.) Optimality conditions in smooth nonlinear programming. (English summary) **97f:90002**
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Yezza, A. First-order necessary optimality conditions for general bilevel programming problems. (English summary) **97c:90117**
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49M40 Methods of quadratic programming type [see also 90C20]

Ralph, Daniel A parallel method for unconstrained discrete-time optimal control problems. (English summary) **97c:49034**

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Georgiev, Pando Gr. (*with* Todorov, Maxim Ivanov) Well-posedness in linear infinite optimization. (English summary) **97m:90084**
Kupfer, F.-S. An infinite-dimensional convergence theory for reduced SQP methods in Hilbert space. (English summary) **97a:90078**
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Vogel, Curtis R. Nonsmooth regularization. (English summary) **97j:65101**

49M45 Methods of convex programming type [see also 90C25]

Angleraud, Patrice *see* **Dolecki, Szymon, 97g:49044**
Dolecki, Szymon (*with* Angleraud, Patrice) When a well behaving convex function is well-conditioned. (English summary) **97g:49044**
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Antipin, A. S. (*with* Nedić, Anđelija; Jaćimović, Milojica) A two-step linearization method for minimization problems. (Russian. Russian summary) **97c:90078**
Enbbat, R. An algorithm for maximizing a convex function over a simple set. (English summary) **97i:90053**
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49Nxx Miscellaneous topics

49N05 Linear optimal control problems [see also 93C05]

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Bibi, M. O. Support method for solving a linear-quadratic problem with polyhedral constraints on control. (English summary) **97k:49046**
Gabasov, R. (*with* Kirillova, F. M.) On a constructive theory of the optimal observation of dynamical systems. (Russian) **97a:93014**
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Kiselev, Yu. N. (*with* Orlov, M. V.) The potential method in a linear time-optimality problem. (Russian. Russian summary) **97j:49003**
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49N10 Linear-quadratic problems

Alpanov, Sh. A. (*with* Murzabekov, Z. N.) Solution of a linear-quadratic optimal control problem with fixed ends of the trajectories of the system. (Russian. Russian summary)
Bucci, Francesca (*with* Pandolfi, Luciano) Finite horizon regulator problem: the non-standard case. (English summary) **97a:49043**
Chmielewski, D. (*with* Manousiouthakis, Vasilios) On constrained infinite-time linear quadratic optimal control. (English summary) **97j:49038**
Fu, Yi Hui (*with* Liu, Xiao Ye) The solvability conditions of the LQ inverse problem. (Chinese. English and Chinese summaries)
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Li, Duan (*with* Schmidt, Christopher Wayne) Cost smoothing in discrete-time linear-quadratic control. (English summary)
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Wang, Yao Qing An analytic solution for the Q matrix of a single-input optimal control system. (Chinese. English and Chinese summaries)
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Baloev, A. A. Analytical construction of controllers that are optimal in quadratic functionals. (Russian. Russian summary) **97f:49045**
Bernstein, Dennis S. *see* **Ge, Yuzhen; et al., 97e:93012**
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Elnagar, Gamal N. State-control spectral Chebyshev parameterization for linearly constrained quadratic optimal control problems. (English summary) **97m:49029**
El Yacoubi, Samira (*with* Sokołowski, Jan) Domain optimization problems for parabolic control systems. (English summary) **97e:49035**
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Engwerda, J. C. Square indefinite LQ-problem: existence of a unique solution. (English summary) **97g:93054**
Faĭbusovich, L. E. (*with* Moore, John Barratt) Infinite-dimensional quadratic optimization: interior-point methods and control applications. (English summary) **97m:90095**
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Ge, Yuzhen (*with* Watson, Layne T.; Collins, Emmanuel G., Jr.; Bernstein, Dennis S.) Probability-one homotopy algorithms for full- and reduced-order H^2/H^∞ controller synthesis. (English summary) **97e:93012**
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Larin, V. B. A singular linear quadratic Gaussian problem. (Russian. English, Russian and Ukrainian summaries) **97a:93070**
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Lin, Chih-Min (*with* Tu, Maan-Huang) Multivariable model reference linear quadratic optimal systems. (English summary)
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Lin, Zong Chi Optimal control of singularly perturbed nonlinear state regulator problem. (English summary) **97h:49036**
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Preda, Vasile (*with* Stancu-Minasian, I. M.) Generalized Mond-Weir duality for multiobjective nonsmooth programming. (English summary) (*see* **97i:90009**)
Rachik, Mostafa (*with* Karrakchou, Jamila; Namir, A.) Optimal control for linear stochastic systems with delays in the state and control. (English summary) **97k:93073**
Sima, Vasile ★ Algorithms for linear-quadratic optimization. **97b:93004**
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Sreeram, V. (*with* Liu, Wan Quan; Teo, Kok Lay; Yan, Wei Yong) Gradient flow approach to LQ cost improvement for simultaneous stabilization problem. (English summary) **97f:93038**
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Hassan, H. M. *see* **El-Dessouky, A. T., 97g:49049**
Howlett, P. G. (*with* Pudney, Peter; Tarnopolskaya, Tania; Gates, David) Optimal driving strategy for a solar car on a level road. (English summary) **97f:49037**
— (*with* Cheng, Jia Xin) Optimal driving strategies for a train on a track with continuously varying gradient. (English summary) **97k:49052**
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Karp, Larry *see* **Golan, Amos; et al., 97a:49046**
Krämer, Franz-Josef (*with* Bai, Sherman X.) Optimal control of a production system with periodic maintenance. (English summary) **97f:49048**
Krotov, V. F. Optimal control of flight trajectories. Absolute optimum, analytic solutions and algorithms. I. (Russian. Russian summary) **97k:49053**
Liu, Ch'ing T'ien (*with* Hsiue, Tzu-Hu) Optimal non-linear control with application to level control system. (English and Chinese summaries)
Ma, Liao Jiang *see* **Wang, Hui[1]; et al.**
Manolescu, S. F. *see* **Niţă, M. M.**
Miele, A. Overview of optimal trajectories for aeroassisted orbital transfer. (English summary) (*see* **97a:00029**)
Miloh, T. *see* **Yavin, Y.; et al., 97m:49030**
Nesenyuk, A. P. (*with* Nikitenko, O. V.; Radchenko, I. F.) Control of the course of a ship under conditions of wind-wave perturbations. (Russian. Russian summary)
Nikitenko, O. V. *see* **Nesenyuk, A. P.; et al.**
Niţă, M. M. (*with* Manolescu, S. F.) A two-step-approach to near-optimal control laws in aircraft symmetric motion. (English summary)
(Özgüner, Ümit) *see* **Barbieri, Enrique**
Pasa, Gelu I. An existence theorem for a control problem in oil recovery. (English summary)
Pudney, Peter *see* **Howlett, P. G.; et al., 97f:49037**
Radchenko, I. F. *see* **Nesenyuk, A. P.; et al.**
Spindler, K. Optimal attitude control of a rigid body. (English summary) **97e:49031**
Tarnopolskaya, Tania *see* **Howlett, P. G.; et al., 97f:49037**
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Torrigiani, Marcello (*with* Zezza, PierLuigi) An optimal control strategy for a sinking fund problem. (English summary)
Velichenko, V. V. Control of discrete-continuous models of catastrophes. (Russian)
Volkov, N. P. Transient control in nuclear power reactors. (English summary) (*see* **97f:00039**)
Wang, Hui[1] (*with* Ma, Liao Jiang; Wang, Ming Zhu) The problem of the existence of an optimal control for a forested area distribution system. (Chinese. English and Chinese summaries)
Wang, Ming Zhu *see* **Wang, Hui[1]; et al.**
Wetterling, W. W. E. Philon's line generalized: an optimization problem from geometry. (English summary) **97d:49038**
Wu, D.-N. *see* **Chuang, C.-H.**
Yavin, Y. (*with* Ehlers, G. W.; Frangos, C.) Closed-loop control of the motion of a sphere rolling on a moving horizontal plane. (English summary) **97k:49054**
— (*with* Frangos, C.; Miloh, T.; Zilman, G.) Collision avoidance by a ship with a moving obstacle: computation of feasible command strategies. (English summary) **97m:49030**
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Alexandrov, Natalia M. Multilevel methods for MDO. (English summary) (*see* **97f:90008**)
Artemenko, V. I. (*with* Gordeev, È. N.; Zhuravlëv, Yu. I.; Kulakov, F. M.; Naumov, V. B.; Potapchuk, G. A.; Sergienko, I. V.; Smetanin, Yu. G.; Urkhard, R.; Khodzinskiĭ, A. N.; Honderd, G.) A method for the formation of optimal programmed trajectories of movement of a robotic manipulator. (Russian. English and Ukrainian summaries) **97k:93043**
Carter, Thomas E. Closed-form solution of an idealized, optimal, highly eccentric hyperbolic rendezvous problem. (English summary) **97f:70055**
Dawid, Herbert (*with* Feichtinger, Gustav) Optimal allocation of drug control efforts: a differential game analysis. (English summary) **97f:90135**
Degtiariova-Kostova, E. V. *see* **Kostov, V. P., 97f:93031**
Dzhgarkava, D. T. Some optimal control problems in the bending of elastic rods. (Russian. English and Georgian summaries)
Feichtinger, Gustav *see* **Dawid, Herbert, 97f:90135**
Gatto, Marino (*with* Ghezzi, Luca L.) Optimal life strategies in organisms exposed to recurrent critical events. (English summary) **97i:92004**
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Gutman, Per-Olof *see* **Ioslovich, I. V.; et al.**
Honderd, G. *see* **Artemenko, V. I.; et al., 97k:93043**
Hou, LiSheng (*with* Ravindran, S. S.) Computations of boundary optimal control problems for an electrically conducting fluid. (English summary) **97h:76127**
Hsiao, Chi-Huang Both state and input constrained optimization of a pedestal positioning system. (English summary)
Ioslovich, I. V. (*with* Gutman, Per-Olof; Seginer, Ido) A non-linear optimal greenhouse control problem with heating and ventilation. (English summary)
Jennings, L. S. (*with* Wong, Kar Hung; Teo, Kok Lay) Optimal control computation to account for eccentric movement. (English summary) **97h:49049**
Khodzinskiĭ, A. N. *see* **Artemenko, V. I.; et al., 97k:93043**
Kosterina, E. A. (*with* Lapin, A. V.) Solution of the problem of saturated-unsaturated filtration of a fluid in soil with caking of the saturation front. (Russian) **97f:76072**
Kostov, V. P. (*with* Degtiariova-Kostova, E. V.) The planar motion with bounded derivative of the curvature and its suboptimal paths. (English summary) **97f:93031**
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Morris, K. A. (*with* Taylor, K. J.) A variational calculus approach to the modelling of flexible manipulators. (English summary) **97e:70008**
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Rutkovskiĭ, V. Yu. (*with* Sukhanov, V. M.) Large space constructions: models, research methods and control principles. I. (Russian. Russian summary)
Schonmann, Roberto H. (*with* Shlosman, S. B.) Constrained variational problem with applications to the Ising model. (English summary) **97h:82030**
Seginer, Ido *see* **Ioslovich, I. V.; et al.**
Sergienko, I. V. *see* **Artemenko, V. I.; et al., 97k:93043**
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Zeng, Qing-Cun *see* **Zhu, Jiang; et al.**
Zhu, Jiang (*with* Zeng, Qing-Cun; Guo, Dongjian; Liu, Zhuo) Optimal control problems related to the navigation channel engineering. (English summary)
Zhuravlëv, Yu. I. *see* **Artemenko, V. I.; et al., 97k:93043**

49N60 Regularity of solutions in the calculus of variations

Acerbi, E. (*with* Fusco, Nicola) A transmission problem in the calculus of variations. (English summary) **97c:49038**
Arcoya, David (*with* Drábek, Pavel; Zertiti, Abderrahim) A minimization problem for some degenerate functionals: nonnegative and bounded solutions. (Russian. Russian summary) **97a:49047**
Ball, J. M. (*with* Nadirashvili, N. S.) Universal singular sets for the one-dimensional variational problems. (English summary) **97f:49049**
Carozza, Menita (*with* Passarelli di Napoli, Antonia) A regularity theorem for minimisers of quasiconvex integrals: the case $1 < p < 2$. (English summary) **97k:49055**
Cliff, Eugene M. *see* **Seywald, Hans, 97i:49038**

David, Guy C^1-arcs for minimizers of the Mumford-Shah functional. (English summary) **97d:49039**
Ding, Shi Jin Local boundedness of minimizers of anisotropic functionals. (English summary) **97a:49048**
Dolcini, Alfredo (*with* Esposito, L.; Fusco, Nicola) $C^{0,\alpha}$ regularity of ω-minima. (Italian summary) **97f:49050**
Drábek, Pavel *see* **Arcoya, David; et al., 97a:49047**
Duong Minh Duc Variational problems of power series growth functionals. (English summary) **97d:49040**
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Fan, Xian Ling (*with* Zhao, Dun) Regularity of minimum points of variational integrals with continuous $p(x)$-growth conditions. (Chinese. Chinese summary)
— (*with* Zhao, Dun) Regularity of minimizers of variational integrals with continuous $p(x)$-growth conditions. (English summary) **97m:49031**
— Regularity of nonstandard Lagrangians $f(x, \xi)$. **97g:49050**
Ferone, Vincenzo (*with* Fusco, Nicola) Continuity properties of minimizers of integral functionals in a limit case. (English summary) **97e:49032**
Fuchs, Martin[2] Lipschitz regularity for certain problems from relaxation. (English summary) **97c:49039**
— (*with* Li, Gong Bao) Global gradient bounds for relaxed variational problems. (English summary) **97k:49056**
Fusco, Nicola *see* **Acerbi, E., 97c:49038**; **Ferone, Vincenzo, 97e:49032** *and* **Dolcini, Alfredo; et al., 97f:49050**
Giachetti, Daniela (*with* Leonetti, Francesco; Schianchi, Rosanna) On the regularity of very weak minima. (English summary) **97a:49049**
(Kuzin, I. A.) *see* **Arcoya, David; et al., 97a:49047**
Leonetti, Francesco *see* **Giachetti, Daniela; et al., 97a:49049**
Li, Gong Bao *see* **Fuchs, Martin[2], 97k:49056**
Liang, Xi Ting $C^{1,\alpha}$-regularity for minimizers of a class of functionals with nonstandard growth conditions. (Chinese. English and Chinese summaries) **97b:49035**
— Local boundedness of solutions to obstacle problems with anisotropic variational functionals. (Chinese. Chinese summary)
— *see also* **Min, Tai Shan, 97f:49051**
Malý, Jan Examples of weak minimizers with continuous singularities. (English summary) **97c:49040**
Marcellini, Paolo Everywhere regularity for some variational vector valued problems. (English summary) (*see* **97g:49001**)
— General growth conditions and regularity. **97k:49057**
Mascolo, Elvira (*with* Papi, Gloria) Harnack inequality for minimizers of integral functionals with general growth conditions. (English summary) **97c:49041**
Mercaldo, A. Boundedness of minimizers of degenerate functionals. (English summary) **97a:49050**
Min, Tai Shan (*with* Liang, Xi Ting) $C^{1,\alpha}$ regularity of minima of functionals with nonstandard growth. (Chinese. Chinese summary) **97f:49051**
Nadirashvili, N. S. *see* **Ball, J. M., 97f:49049**
Nakauchi, Nobumitsu Regularity of minimizing p-harmonic maps into the sphere. (Italian summary) **97d:49041**
— Regularity of minimizing p-harmonic maps into the sphere. (Italian summary) **97e:49033**
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Seywald, Hans (*with* Cliff, Eugene M.) On the existence of touch points for first-order state inequality constraints. (English summary) **97i:49038**
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Zertiti, Abderrahim *see* **Arcoya, David; et al., 97a:49047**
Zhao, Dun *see* **Fan, Xian Ling, 97m:49031**

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Ambrosio, Luigi (*with* Pallara, D.) Partial regularity in free discontinuity problems. **97i:35191**
Arisawa, Mariko (*with* Lions, Pierre-Louis) Continuity of admissible trajectories for state constraints control problems. **97i:49005**
Bergounioux, M. (*with* Tröltzsch, F.) Optimality conditions and generalized bang-bang principle for a state-constrained semilinear parabolic problem. (English summary) **97g:49028**
Bonnet, Alexis On the regularity of the edge set of Mumford-Shah minimizers. (English summary) **97g:49013**
— On the regularity of edges in image segmentation. (English and French summaries) **97h:49057**
DeSimone, A. (*with* Friesecke, G.) On the problem of two linearized wells. (English summary) **97i:49020**
Friesecke, G. *see* **DeSimone, A., 97i:49020**
Gallo, Angela (*with* Piccirillo, Anna Maria) $C^{0,1}$-regularity for solution of variational inequality governed by two second order elliptic operators. (English summary) **97h:35069**
Hao, Wenge (*with* Leonardi, Salvatore; Nečas, Jindřich) An example of irregular solution to a nonlinear Euler-Lagrange elliptic system with real analytic coefficients. **97e:35050**
Khludnev, A. M. Contact problem for a plate having a crack of minimal opening. (English summary) **97h:73065**
Leizarowitz, Arie (*with* Zaslavski, Alexander J.) Infinite-horizon variational problems with nonconvex integrands. (English summary) **97f:49003**
Leonardi, Salvatore *see* **Hao, Wenge; et al., 97e:35050**
Lions, Pierre-Louis *see* **Arisawa, Mariko, 97i:49005**
Marcellini, Paolo Some problems of existence, uniqueness and regularity in the calculus of variations. (English summary) (*see* **97a:00029**)
— Regularity for some scalar variational problems under general growth conditions. (English summary) **97g:49002**
Nečas, Jindřich *see* **Hao, Wenge; et al., 97e:35050**
Olives, Juan A combined capillarity and elasticity problem for a thin plate. (English summary) **97d:73020**
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Reuling, Jürgen Partial regularity for incompressible materials with approximation methods. (English summary) **97j:73016**
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Wang, Yang[3] Existence and regularity of solutions to a variational problem of Mumford and Shah: a constructive approach. (English summary) **97f:49004**
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49N65 Applications of measurable selections to control theory [see also 28B20, 26E25]

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49Qxx Manifolds [see also 58Fxx]

49Q05 Minimal surfaces [see also 53A10, 58E12]

Ambrosio, Luigi (*with* Soner, Halil Mete) Flow by mean curvature of surfaces of any codimension. **97i:49039**
Athanassenas, Maria Bernstein's theorem. (English summary) **97d:49042**
Choe, Jaigyoung Sharp isoperimetric inequalities for stationary varifolds and area minimizing flat chains mod k. **97e:49034**
Delladio, Silvano Do generalized Gauss graphs induce curvature varifolds? (Italian summary) **97i:49040**
Fang, Yi Minimal annuli in $\mathbf{R}^3$ bounded by non-compact complete convex curves in parallel planes. (English summary) **97g:49051**
Ilmanen, T. A strong maximum principle for singular minimal hypersurfaces. **97g:49052**
Kuwert, Ernst Christoph A bound for minimal graphs with a normal at infinity. (English summary) **97a:49052**
Parks, H. R. (*with* Pitts, Jon T.) The least-gradient method for computing area minimizing hypersurfaces spanning arbitrary boundaries. (English summary) (*see* **97a:65004**)
Pilz, Robert On the thread problem for minimal surfaces. (English summary) **97j:49044**
Pitts, Jon T. *see* **Parks, H. R., (97a:65004)**
Simon, Leon Rectifiability of the singular sets of multiplicity 1 minimal surfaces and energy minimizing maps. **97a:49053**
Soner, Halil Mete *see* **Ambrosio, Luigi, 97i:49039**
White, Brian Cabell The bridge principle for stable minimal surfaces. **97d:49043**
Zhang, Zheng Jie A constrained minimization problem associated with isoperimetric inequalities. (Chinese. English and Chinese summaries) **97a:49054**

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Acerbi, E. (*with* Dal Maso, Gianni) New lower semicontinuity results for polyconvex integrals. (English summary) **97f:49011**
Bellettini, G. (*with* Paolini, Maurizio) Anisotropic motion by mean curvature in the context of Finsler geometry. (English summary) **97i:53079**
Chen, Qing[2] On the volume growth and the topology of complete minimal submanifolds of a Euclidean space. (English summary) **97g:53074**
Dal Maso, Gianni *see* **Acerbi, E., 97f:49011**
Dziuk, Gerhard (*with* Hutchinson, John E.) L^2 estimates for approximations to minimal surfaces. (English summary) **97g:58042**
Fang, Yi Minimal surfaces in $\mathbf{R}^3$. **97d:53007**
Garofalo, Nicola (*with* Nhieu, Duy-Minh) Isoperimetric and Sobolev inequalities for Carnot-Carathéodory spaces and the existence of minimal surfaces. **97i:58032**
Große-Brauckmann, Karsten (*with* Wohlgemuth, Meinhard) The gyroid is embedded and has constant mean curvature companions. (English summary) **97k:53011**
Hass, Joel (*with* Hutchings, Michael; Schlafly, Roger) The double bubble conjecture. (English summary) **97b:53014**
Hutchings, Michael *see* **Hass, Joel; et al., 97b:53014**
Hutchinson, John E. *see* **Dziuk, Gerhard, 97g:58042**
Iseri, Howard On the existence of minimal surfaces with singular boundaries. (English summary) **97a:53010**
Jost, Jürgen Orientable and nonorientable minimal surfaces. (English summary) (*see* **97a:00029**)
Lami Dozo, E. (*with* Mariani, M. C.) Solutions to the Plateau problem for the prescribed mean curvature equation via the mountain pass lemma. (English summary) **97b:58033**
Luo, H. P. Stable hypersurfaces with constant mean curvature in $\mathbf{R}^n$. (English summary) **97k:53075**
Mariani, M. C. *see* **Lami Dozo, E., 97b:58033**
Morgan, Frank What is a surface? (English summary) **97g:53007**
— What is a surface? (English summary) **97h:53003**
Nakauchi, Nobumitsu Regularity of minimizing p-harmonic maps into the sphere. (Italian summary) **97e:49033**
Nehring, Thomas Embedded minimal annuli solving an exterior problem. (English summary) **97k:58045**
Nhieu, Duy-Minh *see* **Garofalo, Nicola, 97i:58032**
Nitsche, Johannes C. C. Characterizations of the mean curvature and a problem of G. Cimmino. (English summary) **97c:53009**
Nochetto, Ricardo H. (*with* Verdi, Claudio) Convergence of double obstacle problems to the generalized geometric motion of fronts. (English summary) **97e:35012**

Paolini, Maurizio A quasi-optimal error estimate for a discrete singularly perturbed approximation to the prescribed curvature problem. (English summary) **97c:49017**
— *see also* **Bellettini, G., 97i:53079**
Schlafly, Roger *see* **Hass, Joel; et al., 97b:53014**
Struwe, Michael Singular perturbations of geometric variational problems. (English summary) **97i:58033**
Traizet, Martin Construction de surfaces minimales en recollant des surfaces de Scherk. (English and French summaries) [Minimal surfaces constructed by glueing Scherk surfaces] **97a:53013**
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49Q10 Optimization of the shape other than minimal surfaces [see also 73K40, 90C90]

Aguilar, Jean-Christophe (*with* Zolésio, Jean-Paul) Shape control of a hydrodynamic wake. (English summary) **97m:49032**
Banichuk, N. V. (*with* Barthold, F.-J.; Falk, A.; Stein, Erwin) Finite element analysis with mesh refinement for shape optimization. (English summary) **97f:49052**
Barthold, F.-J. *see* **Banichuk, N. V.; et al., 97f:49052**
Bedivan, D. M. A boundary functional for optimal shape design problems. (English summary) **97b:49036**
Belov, S. A. (*with* Slugin, S. N.) Necessary conditions for a domain optimization problem with various constraints. (English summary) **97g:49053**
Brakke, Kenneth A. *see* **Phelan, Robert; et al., 97i:49041**
Bucur, Dorin (*with* Zolésio, Jean-Paul) N-dimensional shape optimization under capacitary constraint. (English summary) **97g:49054**
Dibos, Françoise (*with* Séré, Eric) An approximation result for the minimizers of the Mumford-Shah functional. (Italian summary) **97k:49058**
Dziri, Raja (*with* Zolésio, Jean-Paul) An energy principle for a free boundary problem for Navier-Stokes equations. (English summary) **97m:49033**
Elizarov, A. M. Optimal control of unknown boundary shape in inverse boundary-value problems. (English summary) (*see* **97c:00037**)
El Yacoubi, Samira (*with* Sokołowski, Jan) Domain optimization problems for parabolic control systems. (English summary) **97e:49035**
Falk, A. *see* **Banichuk, N. V.; et al., 97f:49052**
Girão, Pedro Martins (*with* Kohn, Robert V.) The crystalline algorithm for computing motion by curvature. (English summary) **97h:49053**
Grabovsky, Yury Explicit solution of an optimal design problem with non-affine displacement boundary conditions. (English summary) **97b:49037**
Guillaume, Philippe Intrinsic expression of the derivatives in domain optimization problems. (English summary) **97c:49042**
Henrot, Antoine (*with* Horn, Werner; Sokołowski, Jan) Domain optimization problem for stationary heat equation. (English summary) **97f:49053**
Horn, Werner *see* **Henrot, Antoine; et al., 97f:49053**
Kirjner Neto, C. (*with* Polak, Elijah) On the use of consistent approximations for the optimal design of beams. (English summary) **97j:49045**
Kohn, Robert V. *see* **Girão, Pedro Martins, 97h:49053**
Okhezin, S. P. The shape design problem for systems with distributed parameters. (English summary) (*see* **97a:00029**)
Phelan, Robert (*with* Weaire, Denis; Brakke, Kenneth A.) Computation of equilibrium foam structures using the surface evolver. (English summary) **97i:49041**
Polak, Elijah *see* **Kirjner Neto, C., 97j:49045**
Rao, Murali (*with* Sokołowski, Jan) Optimal shape design of plates and shells with obstacles. (English summary) (*see* **97a:00029**)
Savastyuk, S. V. Method of Lyapunov-Lagrange functions for optimization of dynamic systems with information constraints. (English summary) (*see* **97a:00029**)
Séré, Eric *see* **Dibos, Françoise, 97k:49058**
Slugin, S. N. *see* **Belov, S. A., 97g:49053**
Sokołowski, Jan *see* **El Yacoubi, Samira, 97e:49035**; **Henrot, Antoine; et al., 97f:49053** *and* **Rao, Murali, (97a:00029)**
Stein, Erwin *see* **Banichuk, N. V.; et al., 97f:49052**
Suetov, A. P. A shape optimization algorithm for the minimum drag problem in Stokes flow. (English summary) **97d:49044**
Taylor, Jean E. Surface motion due to crystalline surface energy gradient flows. (English summary) **97h:49054**
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Allaire, Grégoire (*with* Belhachmi, Zakaria; Jouve, François) The homogenization method for topology and shape optimization. Single and multiple loads case. (English and French summaries) **97m:73043**
Ambrosio, Luigi A new proof of the SBV compactness theorem. **97b:49015**
Aubert, Pierre Thickness optimization of a geometrically non-linear arch at a limit point. (English summary) (*see* **97a:49004**)
Belhachmi, Zakaria *see* **Allaire, Grégoire; et al., 97m:73043**
Bucur, Dorin (*with* Zolésio, Jean-Paul) Shape continuity for Dirichlet-Neumann problems. **97c:35042**
Chleboun, Jan *see* **Hlaváček, Ivan, 97f:65067**
Dinh, Quang Vinh (*with* Rogé, Gilbert; Sevin, Cyrille; Stoufflet, Bruno) Shape optimization in computational fluid dynamics. (English and French summaries) **97m:76108**
Fedorov, Valerii V. (*with* Hackl, Peter) Optimal experimental design: spatial sampling.
Finn, Robert Local and global existence criteria for capillary surfaces in wedges. (English summary) **97f:53005**
— (*with* Marek, J.) The modified canonical proboscis. (English summary) **97e:76016**
Ghattas, Omar (*with* Orozco, Carlos E.) A parallel reduced Hessian SQP method for shape optimization. (English summary) (*see* **97i:90008**)
Hackl, Peter *see* **Fedorov, Valerii V.**
Hlaváček, Ivan (*with* Chleboun, Jan) A recovered gradient method applied to smooth optimal shape problems. (English summary) **97f:65067**
Jouve, François *see* **Allaire, Grégoire; et al., 97m:73043**
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(Sokołowski, Jan) *see* **Shape optimization and scientific computations, 97a:49004**
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Shape optimization and scientific computations ★ Shape optimization and scientific computations. **97a:49004**
Warsaw ★ Shape optimization and scientific computations. **97a:49004**

49Q12 Sensitivity analysis

Licht, C. (*with* Michaille, G.) Sensitivity analysis and viscosity method for some problems of the calculus of variations. (English summary) (*see* **97g:49001**)
Michaille, G. *see* **Licht, C., (97g:49001)**

49Q15 Geometric measure and integration theory, integral and normal currents [see also 28A75, 32C30, 58A25, 58C35]

Anzellotti, Gabriele (*with* Delladio, Silvano; Scianna, G.) BV functions over rectifiable currents. (English summary) **97m:49034**
Bedivan, D. M. (*with* Fix, George) An extension theorem for the space H_{div}. (English summary)
— (*with* Fix, George) Erratum to: "An extension theorem for the space H_{div}." [Appl. Math. Lett. **9** (1996), no. 5, 17–20].
Bucur, Dorin (*with* Zolésio, Jean-Paul) Shape optimization for elliptic problems under Neumann boundary conditions. (English summary) (*see* **97g:49001**)
— (*with* Zolésio, Jean-Paul) Free boundary problems and density perimeter. (English summary) **97c:49043**
De Giorgi, Ennio General Plateau problem and geodesic functionals. (Italian) **97a:49055**
Delladio, Silvano *see* **Anzellotti, Gabriele; et al., 97m:49034**
Duzaar, Frank (*with* Steffen, Klaus) Boundary regularity for minimizing currents with prescribed mean curvature. (English summary) **97e:49036**
Fix, George *see* **Bedivan, D. M.**
Kadoya, Atsushi (*with* Kato, Nobuaki; Kenmochi, Nobuyuki; Shirohzu, Jun) Shape optimization for variational inequalities arising from phase change problems. (English summary) **97g:49055**
— Shape optimization problem on the lateral boundary for thermodynamical phase separation. (*see* **97j:00023**)
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Lawlor, Gary R. (*with* Murdoch, Timothy A.) A note about the Veronese cone. **97a:49056**
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Toader, Anca-Maria The convergence of an algorithm in numerical shape optimization. (English and French summaries) **97h:49055**
Zolésio, Jean-Paul *see* **Bucur, Dorin, 97c:49043** *and* **(97g:49001)**

Items with secondary classifications in 49Q15

Brakke, Kenneth A. Numerical solution of soap film dual problems. (English summary) **97d:53006**
Cheng, Qing Ming Nonexistence of stable currents. (English summary) **97e:53133**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) Intrinsic modelling of shells. (English summary) **97b:73063**
Haslinger, J. (*with* Neittaanmäki, Pekka) ★ Finite element approximation for optimal shape, material and topology design. (English summary) **97k:49002**
Hildebrandt, Stefan (*with* Tromba, Anthony) ★ The parsimonious universe. (English summary) **97c:00001**
Imielowski, Szymon (*with* Mahrenholtz, Oskar) Optimization and sensitivity of stepped columns under circulatory load. (English summary)
Kimura, Fumihiko *see* **Ozaki, Ikuo, (97d:90005)**
Kohlmann, Peter Splitting and pinching for convex sets. (English summary) **97a:52005**
Král, Josef (*with* Medková, Dagmar) Angular limits of double layer potentials. **97d:31003**
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Ozaki, Ikuo (*with* Kimura, Fumihiko) A new approach for higher-order design sensitivity analysis by differential algebraic method. (English summary) (*see* **97d:90005**)
Roche, Jean R. (*with* Sokołowski, Jan) Numerical method for shape identification problems. (*see* **97m:00027**)
Ross, Marty Fundamental constructions in geometric measure theory. **97g:28008**
Semmes, Stephen W. Good metric spaces without good parameterizations. (English summary) **97e:57025**
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Tartar, Luc Remarks on optimal design problems. (English summary) (*see* **97g:49001**)
Toda, Masahito On the existence of H-surfaces into Riemannian manifolds. (English summary) **97k:58046**

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49Q20 Variational problems in a geometric measure-theoretic setting

Almgren, Fred Questions and answers about geometric evolution processes and crystal growth. **97h:49056**
Amar, Micol (*with* Bellettini, G.) A notion of total variation depending on a metric with discontinuous coefficients. (English and French summaries) **97a:49057**
Ambrosio, Luigi Minimizing movements. (Italian. English and Italian summaries) **97c:49044**
Anzellotti, Gabriele Functions of bounded variation over non-smooth manifolds and generalized curvatures. (English summary) **97i:49042**
Aviles, Patricio (*with* Giga, Yoshikazu) The distance function and defect energy. (English summary) **97g:49056**
Bellettini, G. (*with* Paolini, Maurizio) Some results on minimal barriers in the sense of De Giorgi applied to driven motion by mean curvature. (English and Italian summaries) **97b:49038**
— *see also* **Amar, Micol, 97a:49057**
Bemelmans, Josef (*with* Chipot, Michel) On a variational problem for an elastic membrane supporting a heavy ball. (English summary) **97b:49039**
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Brakke, Kenneth A. Soap films and covering spaces. (English summary) **97f:49054**
Brandi, Primo (*with* Salvadori, Anna) Closure theorems in BV setting. **97h:49058**
Caffarelli, Luis A. Allocation maps with general cost functions. **97f:49055**
Chipot, Michel (*with* Lécuyer, V.) Analysis and computations in the four-well problem. (*see* **97f:00020**)
— *see also* **Bemelmans, Josef, 97b:49039**
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Johnson, David Lewis (*with* Smith, Penelope) Regularity of mass-minimizing one-dimensional foliations. (English summary) **97g:49057**
Kružík, Martin (*with* Roubíček, Tomáš) Explicit characterization of L^p-Young measures. (English summary) **97f:49056**
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Alexander, Herbert J. Holomorphic chains and the support hypothesis conjecture. **97g:32009**
Almgren, Fred (*with* Taylor, Jean E.) Optimal geometry in equilibrium and growth. (English summary) **97h:58054**
Amar, Micol Integral representation of functionals defined on curves of $W^{1,1}_{\mathrm{loc}}(\mathbf{R})$. (Italian summary) **97h:49015**
Ambrosio, Luigi (*with* Soner, Halil Mete) Flow by mean curvature of surfaces of any codimension. **97i:49039**
Anzellotti, Gabriele (*with* Delladio, Silvano; Scianna, G.) BV functions over rectifiable currents. (English summary) **97m:49034**
Aubert, Gilles (*with* Tahraoui, Rabah) Young measures and relaxation of functionals for integrands $f(x, u(x), u'(x))$. (English summary) **97a:49017**
Bahri, Abbas Addenda to the book: *Critical points at infinity in some variational problems* [Longman Sci. Tech., Harlow, 1989; MR 91h:58022] by Bahri and to the paper: "The scalar-curvature problem on the standard three-dimensional sphere" [J. Funct. Anal. **95** (1991), no. 1, 106–172; MR 92k:58055] by Bahri and J.-M. Coron. **97m:58043**
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Caillerie, Denis Étude générale d'un type de problèmes raides et de perturbation singulière. (English and French summaries) [General study of a kind of singular-stiff problem] **97i:47137**
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Daletskiĭ, Yuriĭ L'vovich (*with* Steblovskaya, V. R.) On infinite-dimensional variational problems. (English summary) **97b:49008**
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— Variational techniques for problems in materials science. (English summary) **97g:49015**
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Morgan, Frank For the minimal surface equation, the set of solvable boundary values need not be convex. (English summary) **97c:58027**
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Mucci, Domenico Approximation in area of continuous graphs. (English summary) **97k:49059**
Musso, Emilio (*with* Nicolodi, Lorenzo) A variational problem for surfaces in Laguerre geometry. (English summary) **97a:58037**
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Phelan, Robert (*with* Weaire, Denis; Brakke, Kenneth A.) Computation of equilibrium foam structures using the surface evolver. (English summary) **97i:49041**
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Raymond, Jean-Pierre (*with* Seghir, Driss) Existence and characterization of BV-curves for problems of calculus of variations. **97k:49005**
Ross, Marty Fundamental constructions in geometric measure theory. **97g:28008**
Sandier, Etienne (*with* Shafrir, Itai) On the uniqueness of minimizing harmonic maps to a closed hemisphere. (English summary) **97b:58041**
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Variational Methods for Discontinuous Structures ★ Variational methods for discontinuous structures. **97d:49002**
Variational methods for discontinuous structures ★ Variational methods for discontinuous structures. **97d:49002**

49Q99 None of the above, but in this section

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Finn, Robert Green's identities and pendent liquid drops. II. **97b:76044**
Sarychev, A. V. First- and second-order sufficient optimality conditions for bang-bang controls. (English summary) **97k:49039**

49Rxx Variational methods {For eigenvalues of operators, see 47A75.}

49R05 Variational approach to eigenvalues

Behnke, Henning A numerically rigorous proof of curve veering in an eigenvalue problem for differential equations. (English summary) **97a:49058**
Gatica, Gabriel N. (*with* Hsiao, George C.) A Gårding's inequality for variational problems with constraints. (English summary) **97k:49060**
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Dincă, G. (*with* Matei, P.) A variational method for a nonlinear Sturm-Liouville problem. (English summary) **97d:34022**
Kołakowska, Alicja K. Relativistic variational calculations for helium-like systems. (English summary)
Kovalevskiĭ, A. A. G-compactness of sequences of nonlinear operators of Dirichlet problems with a variable domain. (Russian. Russian summary) **97b:35018**
Lancelotti, Sergio Perturbations of symmetric constraints in eigenvalue problems for variational inequalities. **97f:35079**
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Yukalova, E. P. *see* **Yukalov, V. I.**, **97j:81058**

49S05 Variational principles of physics

Stuart, C. A. (*with* Zhou, Huan Song) A variational problem related to self-trapping of an electromagnetic field. **97h:49060**
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Delfour, Michel C. (*with* Zolésio, Jean-Paul) Tangential differential equations for dynamical thin/shallow shells. (English summary) **97f:73034**
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Felippa, C. A. Recent developments in parametrized variational principles for mechanics. (English summary) **97c:73079**
van de Fliert, B. W. Planar relative equilibrium vortices with free boundaries. (English summary) **97c:76018**
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Gao, Yang (*with* Russell, David L.) An extended beam theory for smart materials applications. I. Extended beam models, duality theory, and finite element simulations. (English summary) **97h:73049**
Giannoni, Fabio (*with* Masiello, Antonio) On a Fermat principle in general relativity. A Morse theory for light rays. (English summary) **97d:83013**
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Mimura, Fumitake (*with* Ikeda, Toshiharu; Fujiwara, Fumiyo) A geometric derivation of new conservation laws. **97k:58056**
Naëjus, Charles (*with* Cimetière, Alain) Sur la formulation variationnelle du problème de Signorini avec frottement de Coulomb. (English and French summaries) [On the variational formulation of the Signorini problem with Coulomb friction] **97f:73045**
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Thoss, Michael (*with* Englert, Berthold-Georg) A quantum action principle for open systems. (English summary) **97c:82030**
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51–XX Geometry {For algebraic geometry, see 14–XX.}

51–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Shikin, E. V. ★ Handbook and atlas of curves. **97h:51001**

51–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Boyer, Robert S.) *see* **Chou, Shang-Ching; et al., 97a:51001**
Brânzei, Dan *see* **Miron, Radu, 97j:51001**
Cederberg, Judith N. ★ A course in modern geometries. (English summary) **97h:51002**
Chou, Shang-Ching (*with* Gao, Xiao-Shan; Zhang, Jing-Zhong) ★ Machine proofs in geometry. **97a:51001**
Gao, Xiao-Shan *see* **Chou, Shang-Ching; et al., 97a:51001**
Martin, George E. ★ The foundations of geometry and the non-Euclidean plane. (English summary) **97f:51001**
Miron, Radu (*with* Brânzei, Dan) ★ Backgrounds of arithmetic and geometry. **97j:51001**
Posamentier, Alfred S. (*with* Salkind, Charles T.) ★ Challenging problems in geometry. (English summary) **97i:51001**
Salkind, Charles T. *see* **Posamentier, Alfred S., 97i:51001**
Şandru, Mariana *see* **Toda, Magdalena, 97h:51003**
Scheid, Harald ★ Elemente der Geometrie. (German) [Elements of geometry] **97f:51002**
Toda, Magdalena (*with* Şandru, Mariana) Topological aspects in elementary geometry. **97h:51003**
Zhang, Jing-Zhong *see* **Chou, Shang-Ching; et al., 97a:51001**

Items with secondary classifications in 51–01

Banchoff, Thomas F. ★ Beyond the third dimension. (English summary) **97a:00001**
(Bricard, Raoul) *see* **Duporcq, Ernest, 97g:01031**
Dubinsky, Ed *see* **Zazkis, Rina, 97j:00013**
Duporcq, Ernest ★ Premiers principes de géométrie moderne. (French) [First principles of modern geometry] **97g:01031**
Tian, Yu Ping[2] The important position of the cross ratio in projective geometry. (Chinese. English and Chinese summaries) **97h:51028**
Zazkis, Rina (*with* Dubinsky, Ed) Dihedral groups: a tale of two interpretations. **97j:00013**

51–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 51–02

Betten, Dieter *see* **Salzmann, Helmut R.; et al., 97b:51009**
Dembowski, Peter ★ Finite geometries. **97i:51005**
Grundhöfer, Theo *see* **Salzmann, Helmut R.; et al., 97b:51009**
Hähl, Hermann *see* **Salzmann, Helmut R.; et al., 97b:51009**
Löwen, Rainer *see* **Salzmann, Helmut R.; et al., 97b:51009**
Salzmann, Helmut R. (*with* Betten, Dieter; Grundhöfer, Theo; Hähl, Hermann; Löwen, Rainer; Stroppel, Markus) ★ Compact projective planes. **97b:51009**
Schröder, Eberhard M. Metric geometry. **97a:51019**
Stroppel, Markus *see* **Salzmann, Helmut R.; et al., 97b:51009**
Thompson, Anthony C. ★ Minkowski geometry. (English summary) **97f:52001**

51–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 51–03

Andersen, Kirsti The mathematical treatment of anamorphoses from Piero della Francesca to Niceron. (English summary) **97j:01008**
Bagce, Samet Poincaré's philosophy of geometry and its relevance to his philosophy of science. (French summary) **97a:00006**
Bernalte, Antonio *see* **Llombart, José, (97m:01004)**
Bitterfeld, Gloria (*with* Browne, J. M.; Steiner, Joseph M.) An evaluation of the *Ausdehnungslehre* as a language for formulating a class of problems in geometry and mechanism design. (English and German summaries) **97h:01012**
Bkouche, Rudolphe La naissance du projectif: de la perspective à la géométrie projective. [The birth of the projective: from perspective to projective geometry] **97j:01011**
(Bottazzini, Umberto) *see* **Enriques, Federigo, 97m:01104**
Browne, J. M. *see* **Bitterfeld, Gloria; et al., 97h:01012**
(Castelnuovo, Guido) *see* **Enriques, Federigo, 97m:01104**
Chasles, Michel ★ La dualité et l'homographie. (French) [Duality and homography] **97d:01036**
(Conte, Alberto) *see* **Enriques, Federigo, 97m:01104**
Enriques, Federigo ★ Riposte armonie. (Italian. Italian summary) [Secret harmonics] **97m:01104**
(Gario, Paola) *see* **Enriques, Federigo, 97m:01104**
Götze, Heinz Friedrich II and the love of geometry. **97a:01018**
Grootendorst, A. W. The "conic sections" according to Johan de Witt. (Dutch) **97i:01012**
Gu, Dao Xiu *see* **Xie, Ming Chu, 97m:01030**
Jungnickel, Dieter (*with* Pickert, Günter) A life's work in geometry: an homage to Hanfried Lenz. (English summary) **97k:01036**
Knorr, Wilbur R. Pseudo-Euclidean reflections in ancient optics: a re-examination of textual issues pertaining to the Euclidean *Optica* and *Catoptrica*. (English summary) **97a:01009**
— The method of indivisibles in ancient geometry. **97c:01006**
Lemaire, Julien *see* **Michel, Charles; et al., 97m:01109**
(Lenz, Hanfried) *see* **Jungnickel, Dieter, 97k:01036**
Llombart, José (*with* Bernalte, Antonio) The effect of the implantation of non-Euclidean geometries on the change of paradigm and its repercussion in Spain. (*see* **97m:01004**)
Michel, Charles (*with* Lemaire, Julien; Singier, Gaston) ★ Compléments de géométrie moderne [Michel]. Exercices de géométrie moderne [Lemaire]. Les correspondances algébriques (1, 1), (2, 1), (2, 2) [Singier]. (French) [Complements of modern geometry [Michel]. Exercises of modern geometry [Lemaire]. The algebraic correspondences (1, 1), (2, 1), (2, 2) [Singier]] **97m:01109**
Pickert, Günter *see* **Jungnickel, Dieter, 97k:01036**
Poncelet, Jean-Victor ★ Traité des propriétés projectives des figures. Tome I. (French) [Treatise on the projective properties of figures. Vol. I] **97h:01023a**
— ★ Traité des propriétés projectives des figures. Tome II. (French) [Treatise on the projective properties of figures. Vol. II] **97h:01023b**
Samelson, Hans In defense of Euler. **97j:01015**
Singier, Gaston *see* **Michel, Charles; et al., 97m:01109**
Steiner, Joseph M. *see* **Bitterfeld, Gloria; et al., 97h:01012**
Stillwell, John ★ Sources of hyperbolic geometry. (English summary) **97k:01071**
Süßmann, Georg Kennzeichnungen der Räume konstanter Krümmung. [Characterizing spaces of constant curvature] **97j:01026**
Toepell, Michael Zum Einfluß Graßmanns auf die Grundlagen der Geometrie. (English summary) [Hermann Grassmann's influence on the foundations of geometry] **97h:01018**
Xie, Ming Chu (*with* Gu, Dao Xiu) Why didn't projective geometry develop into a field of mathematics in the seventeenth century? (Chinese. English and Chinese summaries) **97m:01030**
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Biography:
Castelnuovo, Guido *see* **Enriques, Federigo, 97m:01104**
Enriques, F. *see* **Enriques, Federigo, 97m:01104**
Correspondence:
Enriques, F.–Castelnuovo, Guido *see* **Enriques, Federigo, 97m:01104**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 51–04

Buekenhout, Francis (*with* Dehon, Michel; Leemans, Dimitri) All geometries of the Mathieu group M_{11} based on maximal subgroups. (English summary) **97h:51015**
Canny, J. F. *see* **Rege, Ashutosh, (97m:68003)**
Dehon, Michel *see* **Buekenhout, Francis; et al., 97h:51015**
Leemans, Dimitri *see* **Buekenhout, Francis; et al., 97h:51015**
Rege, Ashutosh (*with* Canny, J. F.) A practical algorithm for geometric theorem proving. (English summary) (*see* **97m:68003**)
Wang, Dong Ming Reasoning about geometric problems using an elimination method. **97e:68118**

51–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 51–06

(Tonchev, Vladimir D.) *see* **Workshop: Designs, Codes and Geometries, 97f:00030a** *and* **Codes, designs and geometry, 97f:00030b**

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Codes, designs and geometry ★ Codes, designs and geometry. **97f:00030b**
Houghton, MI ★ Second Upper Michigan Combinatorics Workshop on Designs, Codes and Geometries. **97f:00030a**
— ★ Codes, designs and geometry. **97f:00030b**
Workshop:
Designs, Codes and Geometries ★ Second Upper Michigan Combinatorics Workshop on Designs, Codes and Geometries. **97f:00030a**
— ★ Codes, designs and geometry. **97f:00030b**

51Axx Linear incidence geometry

51A05 General theory and projective geometries

Bichara, Alessandro (*with* Misfeld, Jürgen; Zanella, Corrado) Primes and order structure in the product spaces. (English summary) **97j:51002**
Cathelineau, Jean-Louis Birapport et groupoïdes. [Cross ratio and groupoids] **97c:51001**
Misfeld, Jürgen *see* **Bichara, Alessandro; et al., 97j:51002**
Pambuccian, Victor Simple axiom systems for affine planes. (English summary) **97f:51003**
Scafati Tallini, Maria (*with* Tallini, Giuseppe) Semilinear spaces and their remarkable subsets. (English summary) **97d:51001**
Tallini, Giuseppe Combinatorial problems in infinite spaces. (English summary) **97g:51001**
— *see also* **Scafati Tallini, Maria, 97d:51001**
Zanella, Corrado *see* **Bichara, Alessandro; et al., 97j:51002**

Items with secondary classifications in 51A05

Cederberg, Judith N. ★ A course in modern geometries. (English summary) **97h:51002**
Çiftçi, Suleyman On near-linear spaces. (English summary) **97e:51013**
van Dalen, Dirk "Outside" as a primitive notion in constructive projective geometry. (English summary) **97d:03078**
San Agustin Chi, Rodolfo On Cayley's projective configurations—an algorithmic study. (English summary) **97d:51002**

51A10 Homomorphism, automorphism and dualities

Kreuzer, Alexander On the definition of isomorphisms of linear spaces. (English summary) **97h:51004**

Items with secondary classifications in 51A10

Barlotti, Adriano (*with* Strambach, Karl) Collineation groups of ovals and of ovoidal Laguerre planes. **97i:51003**
Bhattarai, H. N. Orbit space over commutative rings and projectivities as semi-isomorphism. (English summary) **97m:51004**
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Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro, 97d:51003**
Powers, Robert C. (*with* Riedel, Thomas; Sahoo, P. K.) On a model of plane geometry. (English and German summaries) **97k:39020**
Riedel, Thomas *see* **Powers, Robert C.; et al., 97k:39020**
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Strambach, Karl *see* **Barlotti, Adriano, 97i:51003**

51A15 Structures with parallelism

Il'inykh, A. P. Classification of finite 3-nets of types I.3, I.4 and I.5. (Russian. Russian summary) **97c:51002**
Meuren, Stephan Partial affine spaces of dimension ≥ 3. (English summary) **97e:51001**
— Projektive und affine Einbettungen partieller linearer Räume. (German summary) [Projective and affine embeddings of partial linear spaces] **97m:51001**
Pambuccian, Victor Über das Reichhaltigkeitsaxiom für partielle affine Räume. (English summary) [On the richness axiom for partial affine spaces] **97e:51002**

Items with secondary classifications in 51A15

Johnson, Norman Lloyd[1] (*with* Ostrom, T. G.) Direct products of affine partial linear spaces. (English summary) **97f:51014**
Ostrom, T. G. *see* **Johnson, Norman Lloyd[1], 97f:51014**

51A20 Configuration theorems

Borobia, Alberto (*with* Mazurovskiĭ, V. F.) On diagrams of configurations of 7 skew lines of $\mathbf{R}^3$. (English summary) **97f:51004**
Khashin, Serge I. (*with* Mazurovskiĭ, V. F.) Stable equivalence of real projective configurations. (English summary) **97f:51005**
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Thas, Charles On a theorem about projectivities. (English summary) **97i:51002**

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Cárdenas, Humberto (*with* San Agustín Chi, Rodolfo) On Veronese's decomposition theorem and the geometry of outer automorphisms of S_6. (English summary) **97i:51039**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Infinite flocks of a quadratic cone. (English summary) **97j:51003**
Johnson, Norman Lloyd[1] *see* **Jha, Vikram, 97j:51003**
San Agustín Chi, Rodolfo *see* **Cárdenas, Humberto, 97i:51039**
Witczyński, Krzysztof Cevas' and Menelaus' theorems for tetrahedra. (English summary) **97f:51030**
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51A25 Algebraization [see also 12Kxx, 20N05]

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Çelik, Basrı (*with* Çiftçi, Suleyman) Cross-ratios over the geometric structures which are coordinatized with alternative or local alternative rings. (English and Turkish summaries) **97e:51003**
Çiftçi, Suleyman *see* **Çelik, Basrı, 97e:51003**
Karzel, Helmut (*with* Wefelscheid, Heinrich) A geometric construction of the K-loop of a hyperbolic space. (English summary) **97c:51007**
Stoss, Hanns-Jörg ★ Treffgeraden und Nullinvarianz. (German. German summary) [Transversals and zero invariance] **97m:51024**
Wefelscheid, Heinrich *see* **Karzel, Helmut, 97c:51007**

51A30 Desarguesian and Pappian geometries

Saltzwedel, Martin Algebraic characterization of lineations on subsets of Desarguesian affine spaces. (English summary) **97c:51003**

Items with secondary classifications in 51A30

Bader, Laura (*with* Johnson, Norman Lloyd[1]) Subplane covered affine planes. (English summary) **97k:51006**
Gács, András (*with* Sziklai, Péter; Szőnyi, Tamás) Two remarks on blocking sets and nuclei in planes of prime order. (English summary) **97j:51015**
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Kożniewski, Edwin Geometric characterization of line geometry over quadratically complete field. **97j:51028**
Pambuccian, Victor Simple axiom systems for affine planes. (English summary) **97f:51003**
Riesinger, Rolf Spreads admitting net generating regulizations. (English summary) **97f:51006**
Sziklai, Péter *see* **Gács, András; et al., 97j:51015**
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Takách, Géza Two lattice identities for projective geometries. (English summary) **97f:06019**
Tillmann, Jürgen p-adische Ovoide. (English summary) [p-adic ovoids] **97m:51014**

51A35 Non-Desarguesian affine and projective planes

Maier, Peter (*with* Stroppel, Markus) Pseudo-homogeneous coordinates for Hughes planes. (English summary) **97h:51005**
Stroppel, Markus *see* **Maier, Peter, 97h:51005**

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Biliotti, Mauro (*with* Johnson, Norman Lloyd[1]) Maximal Baer groups in translation planes and compatibility with homology groups. (English summary) **97d:51003**
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Sziklai, Péter Homogeneous planes. (English summary) **97g:51005**

51A40 Translation planes and spreads

Biliotti, Mauro (*with* Johnson, Norman Lloyd[1]) Maximal Baer groups in translation planes and compatibility with homology groups. (English summary) **97d:51003**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Infinite flocks of a quadratic cone. (English summary) **97j:51003**
Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro, 97d:51003** *and* **Jha, Vikram, 97j:51003**
Kallaher, Michael Translation planes. **97b:51001**
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Baker, Ronald D. (*with* Ebert, G. L.) Filling the nest gaps. (English summary) **97a:51015**
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Durga Prasad, K. V. *see* **Narayana Rao, M. L.; et al., 97d:51008**
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Heden, Olof On Bruen chains. (English summary) **97a:51016**
Jha, Vikram On binary constant weight codes associated with spreads. (English summary) **97k:94068**
— (*with* Johnson, Norman Lloyd[1]) Quasifibrations. (English summary) **97e:51011**
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Kantor, William M. Orthogonal spreads and translation planes. (English summary) **97i:51017**
— (*with* Williams, Michael E.) New flag-transitive affine planes of even order. (English summary) **97e:51012**
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Prince, Alan R. A complete classification of the flag-transitive affine planes of order 125. (English summary) **97j:51012**
Williams, Michael E. *see* **Kantor, William M., 97e:51012**

51A45 Incidence structures imbeddable into projective geometries

Kreuzer, Alexander Locally projective spaces which satisfy the bundle theorem. (English summary) **97f:51007**
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51A50 Polar geometry, symplectic spaces, orthogonal spaces

van Bon, John (*with* Cuypers, Hans; Van Maldeghem, Hendrik) Hyperbolic lines in generalized polygons. (English summary) **97a:51002**
Cuypers, Hans *see* **van Bon, John; et al., 97a:51002**
Johnson, Norman Lloyd[1] Flocks of infinite hyperbolic quadrics. (English summary) **97k:51001**
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Schroth, Andreas E. ★ Topological circle planes and topological quadrangles. (English summary) **97b:51010**

Shult, Ernest E. m-systems and the BLT property. **97j:51017**

51A99 None of the above, but in this section

Hawrylycz, Michael Invariant theory and the projective plane. (English summary) **97b:51002**

Rota, Rosaria Hyperaffine planes over hyperrings. (English summary) **97h:51006**

51Bxx Nonlinear incidence geometry

51B05 General theory

Blunck, Andrea Generalized affine chain geometries. (English summary) **97d:51004**

Iden, Oddvar Automorphism groups of free geometries revisited. (English summary) **97c:51005**

Items with secondary classifications in 51B05

Schroth, Andreas E. ★ Topological circle planes and topological quadrangles. (English summary) **97b:51010**

51B10 Möbius geometries

Çelik, Adem Les mouvements rigides dans le demi-plan supérieur complexe et quelques équations de transformation. (French and Turkish summaries) [Rigid motions in the complex upper half-plane and some transformation equations] **97j:51006**

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51B15 Laguerre geometries

Barlotti, Adriano (*with* Strambach, Karl) Collineation groups of ovals and of ovoidal Laguerre planes. **97i:51003**

Prażmowski, Krzysztof (*with* Radziszewski, Krzysztof) A characterization of a class of Laguerre spaces. (English summary) **97a:51003**

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Items with secondary classifications in 51B15

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51B99 None of the above, but in this section

Blunck, Andrea Chain spaces via Clifford algebras. (English summary) **97m:51003**

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51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

Baker, C. A. (*with* Lane, N. D.; Lorimer, J. W.) The Artin-Zorn theorem for finite punctually cohesive projective Klingenberg planes. (English summary) **97f:51008**

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Faulkner, John R. Current results on Barbilian planes. (English and Romanian summaries) **97h:51007**

— Projective remoteness planes. (English summary) **97h:51008**

Herzer, Armin Der Satz von Tits für $PGL_2(R)$, R ein kommutativer Ring vom stabilen Rang 2. (English summary) [Tits' theorem for $PGL_2(R)$, R a commutative ring of stable rank 2] **97f:51009**

Iordănescu, Radu The geometrical Barbilian's work from a modern point of view. (English summary) **97g:51002**

Kolb, Emanuel Hjelmslev planes over nearrings. (English summary) **97i:51004**

Lane, N. D. *see* **Baker, C. A.**; **et al.**, **97f:51008**

Lorimer, J. W. Topological characterizations of finite Desarguesian projective Hjelmslev planes. **97f:51010**

— *see also* **Baker, C. A.**; **et al.**, **97f:51008**

Schmidt, Stefan E. (*with* Steinitz, Ralph) The coordinatization of affine planes by rings. (English summary) **97f:51011**

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Greferath, Marcus A geometric approach to free left modules over right Bezout domains. (English summary) **97c:06008**

Tillmann, Jürgen p-adische Ovoide. (English summary) [p-adic ovoids] **97m:51014**

51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

Faure, Claude-Alain (*with* Frölicher, Alfred) The dimension theorem in axiomatic geometry. (English summary) **97e:51004**

Frölicher, Alfred *see* **Faure, Claude-Alain**, **97e:51004**

51D20 Combinatorial geometries [see also 05B25, 05B35]

Evans, David M. (*with* Hrushovski, Ehud) The automorphism group of the combinatorial geometry of an algebraically closed field. **97f:51012**

Hrushovski, Ehud *see* **Evans, David M.**, **97f:51012**

Wan, Zhe Xian Geometry of Hamiltonian matrices and its applications. II. (English summary) **97a:51004**

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Kalhoff, Franz Realization of rank 3 matroids. (English summary) **97d:05050**

Metsch, Klaus On the number of lines in 4-dimensional linear spaces. (English summary) **97e:51014**

Reid, Talmage James (*with* Virden, Lee Inmon) On rounded five-element lines of matroids. (English summary) **97m:05068**

Semple, Charles (*with* Whittle, Geoff) Partial fields and matroid representation. (English summary) **97g:05046**

Virden, Lee Inmon *see* **Reid, Talmage James**, **97m:05068**

Wenzel, Walter Maurer's homotopy theory for even Δ-matroids and related combinatorial geometries. (English summary) **97a:05057**

— Maurer's homotopy theory and geometric algebra for even Δ-matroids. (English summary) **97a:05058**

Whittle, Geoff *see* **Semple, Charles**, **97g:05046**

51D99 None of the above, but in this section

Items with secondary classifications in 51D99

Bennett, M. K. Lattices and geometry. **97a:06020**

Luengo, Isabel A diagrammatic subsystem of Hilbert's geometry. (*see* **97c:03012**)

51Exx Finite geometry and special incidence structures

Cameron, Peter J. Finite geometries. **97b:51003**

Dembowski, Peter ★ Finite geometries. **97i:51005**

51E05 General block designs [see also 05B05]

Jackson, Wen-Ai (*with* Wild, Peter R.) On GMW designs and cyclic Hadamard designs. (English summary) **97m:51005**

Mathon, Rudolf (*with* Tran Van Trung) Unitals and unitary polarities in symmetric designs. (English summary) **97m:51006**

Tran Van Trung *see* **Mathon, Rudolf**, **97m:51006**

Wild, Peter R. *see* **Jackson, Wen-Ai**, **97m:51005**

Items with secondary classifications in 51E05

Baker, Ronald D. (*with* Ebert, G. L.) Filling the nest gaps. (English summary) **97a:51015**

Barwick, S. G. A class of Buekenhout unitals in the Hall plane. (English summary) **97a:51008**

Čepulić, Vladimir (*with* Essert, Mario) Biplanes (56, 11, 2) with involutory automorphism fixing 14 points. (English summary) **97e:05052**

Ebert, G. L. *see* **Baker, Ronald D.**, **97a:51015**

Essert, Mario *see* **Čepulić, Vladimir**, **97e:05052**

Seidel, J. J. Spherical designs and tensors. **97m:05070**

Spera, Antonino Giorgio Near-symmetric divisible designs. (English summary) **97h:05023**

51E10 Steiner systems

Rajola, Sandro Sets with fixed congruence in a Steiner system. (English summary) **97i:51006**

Items with secondary classifications in 51E10

Baartmans, Alphonse (*with* Landgev, Ivan N.; Tonchev, Vladimir D.) On the binary codes of Steiner triple systems. (English summary) **97m:05026**

Etzion, Tuvi On threshold schemes from large sets. (English summary) **97i:68148**

Guelzow, Andreas J. Representation of finite nilpotent squags. (English summary) **97d:05037**

Landgev, Ivan N. *see* **Baartmans, Alphonse**; **et al.**, **97m:05026**

Mandrell, R. (*with* Yucas, J.) A geometric construction of the Steiner system $S(5, 8, 24)$. (English summary) **97k:05029**

Shen, Hao (*with* Zeitler, Herbert) Systems $S(2, 4, v)$ with exactly one or without any maximal subsystem. **97h:05036**

Tonchev, Vladimir D. *see* **Baartmans, Alphonse**; **et al.**, **97m:05026**

Yucas, J. *see* **Mandrell, R.**, **97k:05029**

Zeitler, Herbert *see* **Shen, Hao**, **97h:05036**

51E12 Generalized quadrangles, generalized polygons

Bader, Laura (*with* Lunardon, Guglielmo; Payne, S. E.) On q-clan geometry, $q = 2^r$. (English summary) **97b:51004**
Bennett, Curtis D. Twin trees and λ_A-gons. (English summary) **97h:51009**
Cherowitzo, William (*with* Penttila, Tim; Pinneri, I.; Royle, Gordon F.) Flocks and ovals. **97c:51006**
Cuypers, Hans Extended generalized hexagons and the Suzuki chain. (English summary) **97e:51005**
— (*with* Kasikova, Anna; Pasechnik, D. V.) Multiple extensions of generalized hexagons related to the simple groups McL and Co_3. (English summary) **97i:51007**
Del Fra, Alberto (*with* Ghinelli-Smit, Dina) Large extended generalized quadrangles. (English summary) **97g:51003**
— (*with* Pasechnik, D. V.; Pasini, Antonio) A new family of extended generalized quadrangles. (English summary) **97m:51007**
De Smet, V. (*with* Van Maldeghem, Hendrik) Intersections of Hermitian and Ree ovoids in the generalized hexagon $H(q)$. (English summary) **97a:51005**
Ghinelli-Smit, Dina *see* **Del Fra, Alberto, 97g:51003**
Kasikova, Anna *see* **Cuypers, Hans; et al., 97i:51007**
Kramer, Linus (*with* Tent, Katrin) Algebraic polygons. (English summary) **97d:51005**
Lunardon, Guglielmo *see* **Bader, Laura; et al., 97b:51004**
Makhnëv, A. A. On strongly regular extensions of generalized quadrangles with short straight lines. (Russian. Russian summary) **97i:51008**
Medvedev, V. K. Coordinate system and combinatorial objects (an example of a generalized quadrangle). (English summary) **97k:51002**
Pasechnik, D. V. *see* **Cuypers, Hans; et al., 97i:51007** *and* **Del Fra, Alberto; et al., 97m:51007**
Pasini, Antonio *see* **Del Fra, Alberto; et al., 97m:51007**
Payne, S. E. The fundamental theorem of q-clan geometry. **97f:51013**
— *see also* **Bader, Laura; et al., 97b:51004**
Penttila, Tim *see* **Cherowitzo, William; et al., 97c:51006**
Pinneri, I. *see* **Cherowitzo, William; et al., 97c:51006**
Royle, Gordon F. *see* **Cherowitzo, William; et al., 97c:51006**
Tent, Katrin *see* **Kramer, Linus, 97d:51005**
Thas, J. A. Recent developments in the theory of finite generalized quadrangles. (English summary) **97b:51005**
— (*with* Van Maldeghem, Hendrik) Embedded thick finite generalized hexagons in projective space. (English summary) **97j:51008**
Van Maldeghem, Hendrik A finite generalized hexagon admitting a group acting transitively on ordered heptagons is classical. (English summary) **97g:51004**
— *see also* **De Smet, V., 97a:51005** *and* **Thas, J. A., 97j:51008**

Items with secondary classifications in 51E12

van Bon, John (*with* Cuypers, Hans; Van Maldeghem, Hendrik) Hyperbolic lines in generalized polygons. (English summary) **97a:51002**
Collins, Benjamin V. C. The girth of a thin distance-regular graph. (English summary) **97k:05209**
Cuypers, Hans *see* **van Bon, John; et al., 97a:51002**
Fan, Cong On generalized cages. (English summary) **97d:05163**
Gottschalk, Harald Rank three geometries associated with PSL(3, 4). **97h:51016**
O'Keefe, Christine M. (*with* Thas, J. A.) Collineations of Subiaco and Cherowitzo hyperovals. (English summary) **97d:51011**
Pasini, Antonio On extended grids with large automorphism groups. (English summary) **97i:51022**
Schroth, Andreas E. ★ Topological circle planes and topological quadrangles. (English summary) **97b:51010**
Thas, J. A. *see* **O'Keefe, Christine M., 97d:51011**
Van Maldeghem, Hendrik *see* **van Bon, John; et al., 97a:51002**

51E14 Finite partial geometries (general), nets, partial spreads

Johnson, Norman Lloyd[1] The classification of subplane covered nets. (English summary) **97d:51006**
— (*with* Ostrom, T. G.) Direct products of affine partial linear spaces. (English summary) **97f:51014**
— Extending partial flocks containing linear subflocks. (English summary) **97a:51006**
— (*with* Lunardon, Guglielmo) Maximal partial spreads and flocks. (English summary) **97m:51008**
Lunardon, Guglielmo *see* **Johnson, Norman Lloyd[1], 97m:51008**
Ma, Siu Lun Regular automorphism groups on partial geometries. (English summary) **97i:51009**
Makhnëv, A. A. On extensions of partial geometries. (English summary) **97d:51007**
— On pseudo-geometric graphs of the partial geometries $pG_2(4, t)$. (Russian. Russian summary) **97f:51015**
O'Keefe, Christine M. (*with* Pascasio, Arlene A.) Images of conics under derivation. (English summary) **97e:51006**
Ostrom, T. G. *see* **Johnson, Norman Lloyd[1], 97f:51014**
Pascasio, Arlene A. *see* **O'Keefe, Christine M., 97e:51006**

Items with secondary classifications in 51E14

Cameron, Peter J. Finite geometries. **97b:51003**
Haemers, Willem H. (*with* Tonchev, Vladimir D.) Spreads in strongly regular graphs. (English summary) **97f:05196**
Tonchev, Vladimir D. *see* **Haemers, Willem H., 97f:05196**

51E15 Affine and projective planes

Bonisoli, Arrigo (*with* Korchmáros, Gábor) Suzuki groups, one-factorizations and Lüneburg planes. (English summary) **97j:51009**
Cordero, Minerva (*with* Figueroa, Raúl F.) Semifield planes with a transitive autotopism group. **97a:51007**
— *see also* **Figueroa, Raúl F., 97k:51003**
Coulter, Robert S. (*with* Matthews, Rex W.) Planar functions and planes of Lenz-Barlotti class II. (English summary) **97j:51010**
Durakov, B. K. *see* **Podufalov, N. D.; et al., 97j:51011**
Durakov, E. B. *see* **Podufalov, N. D.; et al., 97j:51011**
Durga Prasad, K. V. *see* **Narayana Rao, M. L.; et al., 97d:51008**
Figueroa, Raúl F. (*with* Cordero, Minerva) Semifield planes admitting a transitive autotopism group. **97k:51003**
— *see also* **Cordero, Minerva, 97a:51007**
Knoflíček, František A combinatorial approach to the known projective planes of order nine. (English summary) **97h:51010**
Korchmáros, Gábor *see* **Bonisoli, Arrigo, 97j:51009**
Kravtsova, O. V. *see* **Podufalov, N. D.; et al., 97j:51011**
Kuppuswamy Rao, K. *see* **Narayana Rao, M. L.; et al., 97d:51008**
Matthews, Rex W. *see* **Coulter, Robert S., 97j:51010**
Narayana Rao, M. L. (*with* Kuppuswamy Rao, K.; Durga Prasad, K. V.) A note on a class of translation planes of square order. (English summary) **97d:51008**
Pickert, Günter Ternärkörper und lateinische Quadrate. (German summary) [Ternary fields and Latin squares] **97b:51006**
Podufalov, N. D. (*with* Durakov, B. K.; Kravtsova, O. V.; Durakov, E. B.) On semifield planes of order 16^2. (Russian. Russian summary) **97j:51011**
Prince, Alan R. A complete classification of the flag-transitive affine planes of order 125. (English summary) **97j:51012**
de Resmini, Marialuisa J. On the derived semifield plane of order 16. (English summary) **97e:51007**
Sziklai, Péter Homogeneous planes. (English summary) **97g:51005**
Tecklenburg, H. Latin squares and configuration axioms in affine planes. (English summary) **97k:51004**

Items with secondary classifications in 51E15

Bader, Laura (*with* Johnson, Norman Lloyd[1]) Subplane covered affine planes. (English summary) **97k:51006**
Baker, Ronald D. (*with* Ebert, G. L.) Two-dimensional flag-transitive planes revisited. (English summary) **97j:51016**
Dey, Partha (*with* Hayden, J. L.) On symmetric incidence matrices of projective planes. (English summary) **97f:05033**
Ebert, G. L. *see* **Baker, Ronald D., 97j:51016**
Ferri, Osvaldo Characterization of elliptic hyperboloids in AG(3, q). (Italian. English summary) **97e:51009**
Gács, András (*with* Sziklai, Péter; Szőnyi, Tamás) Two remarks on blocking sets and nuclei in planes of prime order. (English summary) **97j:51015**
Hayden, J. L. *see* **Dey, Partha, 97f:05033**
Johnson, Norman Lloyd[1] *see* **Bader, Laura, 97k:51006**
Kantor, William M. Note on Lie algebras, finite groups and finite geometries. **97h:17008**
Pott, Alexander A survey on relative difference sets. **97e:05047**
Sziklai, Péter *see* **Gács, András; et al., 97j:51015**
Szőnyi, Tamás *see* **Gács, András; et al., 97j:51015**

51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

Abatangelo, Vito (*with* Larato, Bambina) A characterization of Buekenhout-Metz unitals in PG(2, q^2), q even. (English summary) **97a:51010**
Barwick, S. G. A class of Buekenhout unitals in the Hall plane. (English summary) **97a:51008**
Boros, Endre (*with* Meshulam, Roy) On the number of flats spanned by a set of points in PG(d, q). (English summary) **97e:51008**
Casse, L. R. A. (*with* O'Keefe, Christine M.; Penttila, Tim) Characterizations of Buekenhout-Metz unitals. (English summary) **97a:51009**
Dover, Jeremy Some design-theoretic properties of Buekenhout unitals. (English summary) **97i:51010**
Ebert, G. L. Buekenhout-Tits unitals. (English summary) **97m:51009**
Eisfeld, Jörg Some big sets of mutually disjoint subgeometries of PG(d, q^t). (English summary) **97d:51009**
Ferrara Dentice, Eva (*with* Lo Re, Pia Maria; Melone, Nicola) A combinatorial characterization of the Klein quadric. (English summary) **97j:51013**
Ferri, Osvaldo Characterization of elliptic hyperboloids in AG(3, q). (Italian. English summary) **97e:51009**
Hirschfeld, J. W. P. (*with* Kiss, György) Tangent sets in finite spaces. (English summary) **97d:51010**
Kirkpatrick, P. B. A transitive self-polar double-twenty of planes. (English summary) **97j:51014**
Kiss, György (*with* Korchmáros, Gábor) An upper bound for the number of chords of a polygon which pass through a given point in a finite plane. (English summary) **97h:51011**
— *see also* **Hirschfeld, J. W. P., 97d:51010**
Korchmáros, Gábor (*with* Storme, L.; Szőnyi, Tamás) Space-filling subsets of a normal rational curve. (English summary) **97m:51010**
— *see also* **Kiss, György, 97h:51011**
Larato, Bambina *see* **Abatangelo, Vito, 97a:51010**
Lo Re, Pia Maria *see* **Ferrara Dentice, Eva; et al., 97j:51013**
Melone, Nicola *see* **Ferrara Dentice, Eva; et al., 97j:51013**
Meshulam, Roy *see* **Boros, Endre, 97e:51008**
O'Keefe, Christine M. *see* **Casse, L. R. A.; et al., 97a:51009**
Penttila, Tim *see* **Casse, L. R. A.; et al., 97a:51009**
Storme, L. *see* **Korchmáros, Gábor; et al., 97m:51010**
Szőnyi, Tamás *see* **Korchmáros, Gábor; et al., 97m:51010**

Items with secondary classifications in 51E20

Bader, Laura (*with* Lunardon, Guglielmo; Payne, S. E.) On q-clan geometry, $q = 2^r$. (English summary) **97b:51004**

Biliotti, Mauro (*with* Johnson, Norman Lloyd[1]) Maximal Baer groups in translation planes and compatibility with homology groups. (English summary) **97d:51003**
Hoggar, S. G. Intersection polynomials for t-designs in Delsarte spaces. (English summary) **97g:05042**
Johnson, Norman Lloyd[1] (*with* Lunardon, Guglielmo) Maximal partial spreads and flocks. (English summary) **97m:51008**
— Flocks of infinite hyperbolic quadrics. (English summary) **97k:51001**
— *see also* **Biliotti, Mauro, 97d:51003**
Lunardon, Guglielmo *see* **Bader, Laura; et al., 97b:51004** *and* **Johnson, Norman Lloyd[1], 97m:51008**
O'Keefe, Christine M. Ovoids in PG$(3, q)$: a survey. (English summary) **97d:51013**
— (*with* Penttila, Tim) Ovoids with a pencil of translation ovals. (English summary) **97d:51012**
Payne, S. E. *see* **Bader, Laura; et al., 97b:51004**
Penttila, Tim *see* **O'Keefe, Christine M., 97d:51012**
Rajola, Sandro Sets with fixed congruence in a Steiner system. (English summary) **97i:51006**
de Resmini, Marialuisa J. On the derived semifield plane of order 16. (English summary) **97e:51007**
Thas, J. A. k-arcs, hyperovals, partial flocks and flocks. (English summary) **97g:51009**
Ueberberg, Johannes A class of partial linear spaces related to $PGL_3(q^2)$. (English summary) **97j:51019**

51E21 Blocking sets, ovals, k-arcs

Ball, Simeon On the size of a triple blocking set in PG$(2, q)$. (English summary) **97g:51006**
— (*with* Blokhuis, Aart) On the size of a double blocking set in PG$(2, q)$. (English summary) **97e:51010**
Blokhuis, Aart Blocking sets in Desarguesian planes. (English summary) **97h:51012**
— Special point sets in finite projective planes. **97i:51011**
— *see also* **Ball, Simeon, 97e:51010**
Cherowitzo, William Hyperovals in Desarguesian planes: an update. (English summary) **97h:51013**
Ebert, G. L. (*with* Wantz, K.) A group-theoretic characterization of Buekenhout-Metz unitals. (English summary) **97a:51011**
Gács, András (*with* Sziklai, Péter; Szőnyi, Tamás) Two remarks on blocking sets and nuclei in planes of prime order. (English summary) **97j:51015**
Heim, Udo Blockierende Mengen in endlichen projektiven Räumen. [Blocking sets in finite projective spaces] **97f:51016**
Hirschfeld, J. W. P. (*with* Korchmáros, Gábor) On the embedding of an arc into a conic in a finite plane. (English summary) **97i:51012**
Jha, Vikram (*with* Wene, G.) An oval partition of the central units of certain semifield planes. (English summary) **97g:51007**
Korchmáros, Gábor *see* **Hirschfeld, J. W. P., 97i:51012**
O'Keefe, Christine M. (*with* Thas, J. A.) Collineations of Subiaco and Cherowitzo hyperovals. (English summary) **97d:51011**
— Ovoids in PG$(3, q)$: a survey. (English summary) **97d:51013**
— (*with* Penttila, Tim) Ovoids with a pencil of translation ovals. (English summary) **97d:51012**
Pasquali Coluzzi, Dario On a partition of a three-dimensional affine space over GF(q), q odd. (English summary) **97g:51008**
Penttila, Tim *see* **O'Keefe, Christine M., 97d:51012**
Rinaldi, Gloria Arcs in the Hall planes. (English summary) **97a:51012**
Stangarone, Rosa Complete q-arcs in projective planes of even order q. (Italian. English summary) **97f:51017**
Storme, L. Transitive arcs in planes of even order. (English summary) **97h:51014**
Sziklai, Péter *see* **Gács, András; et al., 97j:51015**
Szőnyi, Tamás On the number of directions determined by a set of points in an affine Galois plane. (English summary) **97d:51014**
— *see also* **Gács, András; et al., 97j:51015**
Thas, J. A. k-arcs, hyperovals, partial flocks and flocks. (English summary) **97g:51009**
— *see also* **O'Keefe, Christine M., 97d:51011**
Wantz, K. *see* **Ebert, G. L., 97a:51011**
Wene, G. *see* **Jha, Vikram, 97g:51007**

Items with secondary classifications in 51E21

Ali, A. H. (*with* Hirschfeld, J. W. P.; Kaneta, H.) On the size of arcs in projective spaces. (English summary) **97g:51010**
Cherowitzo, William (*with* Penttila, Tim; Pinneri, I.; Royle, Gordon F.) Flocks and ovals. **97c:51006**
Ebert, G. L. Buekenhout-Tits unitals. (English summary) **97m:51009**
Hirschfeld, J. W. P. (*with* Kiss, György) Tangent sets in finite spaces. (English summary) **97d:51010**
— *see also* **Ali, A. H.; et al., 97g:51010**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Automorphism groups of flocks of oval cones. (English summary) **97f:51018**
Johnson, Norman Lloyd[1] *see* **Jha, Vikram, 97f:51018**
Kaneta, H. *see* **Ali, A. H.; et al., 97g:51010**
Kiss, György *see* **Hirschfeld, J. W. P., 97d:51010**
O'Keefe, Christine M. (*with* Pascasio, Arlene A.) Images of conics under derivation. (English summary) **97e:51006**
Pascasio, Arlene A. *see* **O'Keefe, Christine M., 97e:51006**
Payne, S. E. The fundamental theorem of q-clan geometry. **97f:51013**
Penttila, Tim *see* **Cherowitzo, William; et al., 97c:51006**
Pinneri, I. *see* **Cherowitzo, William; et al., 97c:51006**
Quattrocchi, Pasquale (*with* Rinaldi, Gloria) Arcs in Minkowski planes. (English summary) **97i:51023**
Rinaldi, Gloria *see* **Quattrocchi, Pasquale, 97i:51023**
Royle, Gordon F. *see* **Cherowitzo, William; et al., 97c:51006**
Shult, Ernest E. m-systems and the BLT property. **97j:51017**

51E22 Linear codes and caps in Galois spaces [see also 94B05]

Abatangelo, Vito (*with* Korchmáros, Gábor; Larato, Bambina) Classification of maximal caps in PG$(3, 5)$ different from elliptic quadrics. (English summary) **97i:51013**
Ali, A. H. (*with* Hirschfeld, J. W. P.; Kaneta, H.) On the size of arcs in projective spaces. (English summary) **97g:51010**
Cooperstein, Bruce N. A note on tensor products of polar spaces over finite fields. (English summary) **97a:51013**
Dye, R. H. Some families of complete caps of quadrics and symplectic polarities over GF(8). (English summary) **97a:51014**
Faina, Giorgio (*with* Pambianco, Fernanda) A class of complete k-caps in PG$(3, q)$ for q an odd prime. (English summary) **97i:51014**
Hirschfeld, J. W. P. *see* **Ali, A. H.; et al., 97g:51010**
Kaneta, H. *see* **Ali, A. H.; et al., 97g:51010**
Kobayashi, Shigeru (*with* Takada, Ichiro) The submanifold of self-dual codes in a Grassmann manifold. **97k:51005**
Korchmáros, Gábor *see* **Abatangelo, Vito; et al., 97i:51013**
Larato, Bambina *see* **Abatangelo, Vito; et al., 97i:51013**
Pambianco, Fernanda (*with* Storme, L.) Small complete caps in spaces of even characteristic. (English summary) **97g:51011**
— *see also* **Faina, Giorgio, 97i:51014**
Rolland, Robert (*with* Skorobogatov, A. N.) Dénombrement des configurations dans le plan projectif. (English and French summaries) [Enumeration of configurations in the projective plane] **97g:51012**
Skorobogatov, A. N. *see* **Rolland, Robert, 97g:51012**
Storme, L. *see* **Pambianco, Fernanda, 97g:51011**
Szőnyi, Tamás On cyclic caps in projective spaces. (English summary) **97i:51015**
Takada, Ichiro *see* **Kobayashi, Shigeru, 97k:51005**

Items with secondary classifications in 51E22

Baartmans, Alphonse (*with* Landgev, Ivan N.; Tonchev, Vladimir D.) On the binary codes of Steiner triple systems. (English summary) **97m:05026**
Dodunekov, Stefan (*with* Landgev, Ivan N.) On near MDS codes. **97b:94028**
Etzion, Tuvi On the nonexistence of perfect codes in the Johnson scheme. (English summary) **97m:94037**
Hamada, Noboru (*with* Helleseth, Tor) A characterization of some $\{3v_{\mu+1}, 3v_\mu; k-1, q\}$-minihypers and some $[n, k, q^{k-1} - 3q^\mu; q]$-codes ($k \geq 3$, $q \geq 5$, $1 \leq \mu < k-1$) meeting the Griesmer bound. (English summary) **97b:94046**
Helleseth, Tor *see* **Hamada, Noboru, 97b:94046**
Kantor, William M. Quaternionic line-sets and quaternionic Kerdock codes. (English summary) **97b:94033**
Landgev, Ivan N. *see* **Dodunekov, Stefan, 97b:94028** *and* **Baartmans, Alphonse; et al., 97m:05026**
Maruta, Tatsuya On the non-existence of linear codes attaining the Griesmer bound. (English summary) **97h:94018**
Pei, Ding Yi (*with* Wang, Xueli) Authentication-secrecy code based on conics over finite fields. (English summary) **97m:94018**
Tonchev, Vladimir D. *see* **Baartmans, Alphonse; et al., 97m:05026**
van der Vlugt, Marcel An application of elementary algebraic geometry in coding theory. (English summary) **97m:94043**
Wang, Xueli *see* **Pei, Ding Yi, 97m:94018**

51E23 Spreads and packing problems

Bader, Laura (*with* Johnson, Norman Lloyd[1]) Subplane covered affine planes. (English summary) **97k:51006**
Baker, Ronald D. (*with* Ebert, G. L.) Regulus-free spreads of PG$(3, q)$. (English summary) **97d:51015**
— (*with* Ebert, G. L.) Filling the nest gaps. (English summary) **97a:51015**
— (*with* Ebert, G. L.) Two-dimensional flag-transitive planes revisited. (English summary) **97j:51016**
Bernardi, Marco P. (*with* Schiavi, Emilio) On the existence of (l, m, n)-spreads. (English summary) **97i:51016**
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— (*with* Meixner, Thomas; Del Fra, Alberto; Pasini, Antonio) Flag transitive $c.\mathrm{Af}^*$ geometries. (English summary) **97k:51007**
— (*with* Pasechnik, D. V.) The universal covers of the sporadic semibiplanes. (English summary) **97i:51019**
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Cuypers, Hans (*with* Pasini, Antonio) Finite flag-transitive $A_{n-2}.L^*.L$ geometries. (English summary) **97a:51017**
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— Buekenhout geometries of rank 3 which involve the Petersen graph. **97f:51021**
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— *see also* **Baumeister, Barbara, 97i:51019**
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— (*with* Tsaranov, S. V.) Bounding the size of certain rank 3 geometries with designs as rank 2 residues. (English summary) **97d:51018**
— Flag-transitive extensions of dual affine planes. (English summary) **97j:51018**
— On a problem on chamber systems. (English summary) **97b:51007**
— *see also* **Cuypers, Hans, 97a:51017**; **Huybrechts, Cécile, 97h:51017**; **Meixner, Thomas, 97i:51021** *and* **Baumeister, Barbara; et al., 97k:51007**
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— (*with* Kasikova, Anna; Pasechnik, D. V.) Multiple extensions of generalized hexagons related to the simple groups McL and Co_3. (English summary) **97i:51007**
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Çiftçi, Suleyman On near-linear spaces. (English summary) **97e:51013**
Durante, Nicola (*with* Napolitano, Vito; Olanda, Domenico) Characterization of three types of planar spaces with invisible planes. (English summary) **97i:51024**
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51E30 Other finite incidence structures [see also 05B30]

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51Fxx Metric geometry

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51F05 Absolute planes

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51F20 Congruence and orthogonality [see also 20H05]

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51F25 Orthogonal and unitary groups [see also 20H05]

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51F99 None of the above, but in this section

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51H10 Topological linear incidence structures

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— *see also* **Salzmann, Helmut R.; et al., 97b:51009**
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— *see also* **Salzmann, Helmut R.; et al., 97b:51009** *and* **Grundhöfer, Theo, 97c:51008**
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51H20 Topological geometries on manifolds [see also 57–XX]

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51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

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51H30 Geometries with algebraic manifold structure [see also 14–XX]

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51Jxx Incidence groups

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51J20 Representation by near-fields and near-algebras [see also 12K05, 16Y30]

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51Kxx Distance geometry

51K05 General theory

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Bandelt, Hans-Jürgen (*with* Chepoĭ, V. D.) Embedding metric spaces in the rectilinear plane: a six-point criterion. (English summary) **97a:51022**
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— *see also* **Andalafte, Edward, 97d:51022**
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51K10 Synthetic differential geometry

Items with secondary classifications in 51K10

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51K99 None of the above, but in this section

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König, Hermann Isometric imbeddings of Euclidean spaces into finite-dimensional l_p-spaces. (English summary) **97f:46018**
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51Lxx Geometric order structures [see also 53C75]

51L15 n-vertex theorems via direct methods

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Sedykh, V. D. Apparent contour singularities of convex bodies. (English summary) **97a:52004**

51Mxx Real and complex geometry

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Martin, George E. ★ The foundations of geometry and the non-Euclidean plane. (English summary) **97f:51001**

51M04 Elementary problems in Euclidean geometries

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Artzy, Rafael (*with* Kiss, György) Shape-regular polygons in finite planes. (English summary) **97j:51024**
Barry, P. D. A conic and a Pascal line as cubic locus. **97m:51015**
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Chengalvarayan, P. Chengalvarayan's secant theorem.
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Czech, Ludmila A constructional problem. (English summary) **97a:51025**
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Grünbaum, Branko (*with* Shephard, G. C.) Ceva, Menelaus, and the area principle. **97f:51028**
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Retkes, Zoltán On the open question 28.
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Zagier, Don A note on Reyes's theorem about triangles. **97m:51017**

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Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, M. S.) Characterizations of inner product structures involving the radius of the inscribed or circumscribed circumference. (English summary) **97j:46017**
Guijarro Carranza, Piedad *see* **Alsina, Claudi; et al., 97j:46017**
Haruki, Hiroshi (*with* Rassias, Themistocles M.) A new characteristic of Möbius transformations by use of Apollonius points of triangles. (English summary) **97b:30007**
Kemnitz, Arnfried Rational triangles. **97c:11038**
Posamentier, Alfred S. (*with* Salkind, Charles T.) ★ Challenging problems in geometry. (English summary) **97i:51001**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 97b:30007**
Salkind, Charles T. *see* **Posamentier, Alfred S., 97i:51001**
Tomás, M. S. *see* **Alsina, Claudi; et al., 97j:46017**
Tong, Jingcheng The construction of the similar Ceva-triangle. (Italian summary) **97d:51029**

51M05 Euclidean geometries (general) and generalizations

Blass, Andreas R. (*with* Pambuccian, Victor) On a problem of H. N. Gupta. (English summary) **97f:51032**
Boone, James R. The Moise plane. **97i:51029**
Jiang, Sheng Angles between Euclidean subspaces. (English summary) **97h:51020**
Lester, June A. Triangles. I. Shapes. (English summary) **97h:51021**
— Triangles. II. Complex triangle coordinates. (English summary) **97h:51022**
Li, Tao Sheng A generalization of the concept of included angle for vectors in the higher-dimensional Euclidean space E^n. (Chinese. English and Chinese summaries) **97f:51033**
Loi, Wong Yan Geometric identities of a triangle. **97h:51023**
Pambuccian, Victor *see* **Blass, Andreas R., 97f:51032**
Richter, Georg (*with* Schnabel, Rudolf) Euklidische Räume. (English summary) [Euclidean spaces] **97m:51018**
Schnabel, Rudolf *see* **Richter, Georg, 97m:51018**

Items with secondary classifications in 51M05

(Boyer, Robert S.) *see* **Chou, Shang-Ching; et al., 97a:51001**
Cederberg, Judith N. ★ A course in modern geometries. (English summary) **97h:51002**
Chou, Shang-Ching (*with* Gao, Xiao-Shan; Zhang, Jing-Zhong) ★ Machine proofs in geometry. **97a:51001**
Gao, Xiao-Shan *see* **Chou, Shang-Ching; et al., 97a:51001**
Izadi, F. A. The extension of geometric models through tensors. **97h:51024**
Weiß, Gunter Einige ebene Schließungssätze und mögliche Erweiterungen derselben. (English summary) [Some plane closure theorems and possible extensions of them] **97i:51028**
Zhang, Jing-Zhong *see* **Chou, Shang-Ching; et al., 97a:51001**

51M09 Elementary problems in hyperbolic and elliptic geometries

Luo, Feng[1] On a problem of Fenchel. (English summary) **97m:51019**
Mackenzie, Dana Hyperbolic isometries and hexanometry. (English summary) **97d:51025**
Perline, Ron Non-Euclidean flashlights. **97d:51026**

Items with secondary classifications in 51M09

Bullett, Shaun *see* **Mantica, Giorgio, 97b:52021**
Costa, Antonio F. (*with* Martínez, Ernesto) On hyperbolic right-angled polygons. (English summary) **97a:51028**
Jagy, William C. Squaring circles in the hyperbolic plane. **97d:51027**
Mantica, Giorgio (*with* Bullett, Shaun) Plato, Apollonius, and Klein: playing with spheres. (English summary) **97b:52021**
Martínez, Ernesto *see* **Costa, Antonio F., 97a:51028**
Wang, Jia *see* **Yang, Shi Guo, 97f:51036**
Yang, Shi Guo (*with* Wang, Jia) Some geometric inequalities in non-Euclidean space. (English summary) **97f:51036**

51M10 Hyperbolic and elliptic geometries (general) and generalizations

Babić, Ivanka (*with* Kučinić, Branko) M-Modell des hyperbolischen H^3-Raums in der Möbius-Ebene. (English and Serbo-Croatian summaries) [M-model of the hyperbolic H^3-space in the Möbius plane] **97j:51026**
Boskoff, Wladimir-George ★ Hyperbolic geometry and Barbilian spaces. (English summary) **97e:51017**
Costa, Antonio F. (*with* Martínez, Ernesto) On hyperbolic right-angled polygons. (English summary) **97a:51028**
Hangan, Theodor A trigonometric law for Grassmann manifolds. (English and Romanian summaries) (*see* **97e:53002**)
Helling, H. (*with* Kim, A. C.; Mennicke, Jens L.) Some honey-combs in hyperbolic 3-space. **97c:51010**
Izadi, F. A. The extension of geometric models through tensors. **97h:51024**
Kim, A. C. *see* **Helling, H.; et al., 97c:51010**
Kučinić, Branko *see* **Babić, Ivanka, 97j:51026**
Martínez, Ernesto *see* **Costa, Antonio F., 97a:51028**
Mennicke, Jens L. *see* **Helling, H.; et al., 97c:51010**
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Ruoff, Dieter On the derivation of the non-Euclidean angle of parallelism function. (English summary) **97f:51034**
Sandler, Hanna Distance formulas in complex hyperbolic space. (English summary) **97a:51029**
Schreiber, Peter On a constructive property of Poincaré's model of the hyperbolean plane. (French summary) **97e:51018**
Zhou, Zhan A class of Möbius transformations in several dimensions. (Chinese. English and Chinese summaries) **97m:51020**

Items with secondary classifications in 51M10

(Balint, Stefan) *see* **Costescu, Ion**
Cederberg, Judith N. ★ A course in modern geometries. (English summary) **97h:51002**
Cesaratto, E. (*with* Grynberg, S.; Hansen, R.; Piacquadio Losada, M.) Multifractal spectra and hyperbolic geometry. (English summary) **97e:58089**
Costescu, Ion ★ The cosmical knowledge and the human computer.

Grynberg, S. *see* **Cesaratto, E.; et al., 97c:58089**
Hansen, R. *see* **Cesaratto, E.; et al., 97c:58089**
Piacquadio Losada, M. *see* **Cesaratto, E.; et al., 97c:58089**
Schoger, Astrid Ulrike Koppelkurven und Mittelpunktskegelschnitte in der hyperbolischen Ebene. (English summary) [Coupler curves and central conics in the hyperbolic plane] **97g:51024**
Stillwell, John ★ Sources of hyperbolic geometry. (English summary) **97k:01071**
Süßmann, Georg Kennzeichnungen der Räume konstanter Krümmung. [Characterizing spaces of constant curvature] **97j:01026**
Szczepański, Andrzej Holonomy groups of five-dimensional Bieberbach groups. (English summary) **97e:20071**
Ungar, Abraham A. Extension of the unit disk gyrogroup into the unit ball of any real inner product space. (English summary) **97j:51033**

51M15 Geometric constructions

Anai, Hirokazu *see* **Takeshima, Taku, (97c:00054)**
Burgiel, H. (*with* Franzblau, D. S.; Gutschera, K. Robert) The mystery of the linked triangles. (English summary) **97e:51019**
Franzblau, D. S. *see* **Burgiel, H.; et al., 97e:51019**
Gutschera, K. Robert *see* **Burgiel, H.; et al., 97e:51019**
Hull, C. Thomas A note on "impossible" paper folding. **97c:51011**
Jagy, William C. Squaring circles in the hyperbolic plane. **97d:51027**
Jepsen, Charles H. Equidissections of trapezoids. **97i:51031**
Monsky, Paul Calculating a trapezoidal spectrum. **97i:51032**
Strommer, J. Konstruktion des regulären 257-Ecks mit Lineal und Streckenübertrager. [Construction of the regular 257-gon with straightedge and segment transferer] **97d:51028**
Takeshima, Taku (*with* Anai, Hirokazu) Computer algebra applied to Malfatti's problem of constructing three tangent circles inside a triangle—the construction of towers over the field of rational functions. (Japanese) (*see* **97c:00054**)
Tang, Yu The problem of subdividing an arbitrary angle into approximately equal parts. (Chinese. Chinese summary) **97c:51012**
Tong, Jingcheng The construction of the similar Ceva-triangle. (Italian summary) **97d:51029**

Items with secondary classifications in 51M15

Eriksson, Kimmo Splitting a polygon into two congruent pieces. **97f:52021**
Oldknow, Adrian The Euler-Gergonne-Soddy triangle of a triangle. **97b:51013**
Reyes, W. On a theorem in circle geometry. (English summary) **97f:51029**
Schreiber, Peter On a constructive property of Poincaré's model of the hyperbolean plane. (French summary) **97e:51018**
Veljan, Darko An analogue of the Pythagorean theorem with regular n-gons instead of squares. (English and German summaries) **97g:51015**
Zagier, Don A note on Reyes's theorem about triangles. **97m:51017**

51M16 Inequalities and extremum problems {For convex problems see 52A40.}

Bei, Qing Quan The weighted Steiner problem and the weighted Gilbert-Pollack conjecture. (Chinese)
Bjelica, Momčilo An inequality for the triangle. (English summary) **97a:51030**
Chaljub-Simon, Alice (*with* Volkmann, Peter) On two geometric inequalities. (English summary) **97b:51014**
Chen, Ji (*with* Wang, Zhen[1]) Simple proofs of the generalized Oppenheim inequalities. (Chinese. English and Chinese summaries) **97a:51031**
Du, Jia Bao A lower bound for Heilbronn's problem. (Chinese. English and Chinese summaries) **97a:51032**
Gregorac, Robert J. The Yang-Zhang inequality. (English summary) **97d:51030**
Hu, Yao Zong A new geometric inequality. (Chinese. English and Chinese summaries) **97k:51011**
Janous, Walter An inequality for the internal angle-bisectors of a triangle. (English summary) **97i:51033**
Komornik, Vilmos A short proof of the Erdős-Mordell theorem. **97h:51025**
Kovács, Gabriella An extremum problem.
Mao, Qi-Ji On the isoperimetric deficit of a simplex and of a polygon. (English summary) **97f:51035**
Smith, John Denmead Ptolemaic inequalities. (English summary) **97d:51031**
Su, Hua Ming Two inequalities for a simplex generated by feet of perpendiculars. (Chinese. English and Chinese summaries) **97b:51015**
— Two inequalities for the dihedral angles and vertex angles of a simplex. (Chinese. Chinese summary) **97i:51034**
— An extension of Oppenheim's theorem to higher dimensions. (Chinese. Chinese summary) **97i:51035**
— Inequalities involving the inradii of simplexes. (English summary) **97d:51032**
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Wang, Jia *see* **Yang, Shi Guo, 97f:51036**
Wang, Zhen[1] *see* **Chen, Ji, 97a:51031**
Yang, Shi Guo (*with* Wang, Geng) A class of geometric inequalities in the spherical space. (English and Chinese summaries)
— A geometric inequality for a finite set of points on a sphere and its applications. (English summary) **97m:51021**
— Some inequalities on areas of bisection planes of dihedral angles of a simplex. (English summary) **97m:51022**
— (*with* Wang, Jia) Some geometric inequalities in non-Euclidean space. (English summary) **97f:51036**
Zhang, Yao Two inequalities involving the distances between the side faces and an interior point of a simplex. (Chinese. English and Chinese summaries) **97k:51012**

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Andreev, Nikolai N. An extremal property of the icosahedron. (English summary) **97m:52022**
Giering, O. Zum Problem von Sylvester Punktmengen mit k-Tripeln. (English summary) [On Sylvester's problem on point sets with k-triples] **97h:52025**
Jiang, Sheng Angles between Euclidean subspaces. (English summary) **97h:51020**
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Leng, Gang Song (*with* Tang, Lihua) Some inequalities on the inradii of a simplex and of its faces. (English summary) **97c:52022**
Liu, Andy C. F. (*with* Joe, Barry) Relationship between tetrahedron shape measures. (English summary) **97m:51023**
Rosenfeld, Moshe How wide can you spread your chopsticks? (English summary) **97d:52014**
Tang, Lihua *see* **Leng, Gang Song, 97c:52022**
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Xu, Yin Feng On stable line segments in all triangulations of a planar point set. (English summary) **97e:52028**
Yang, Shi Guo (*with* Wang, Jia) An inequality for n-dimensional sines of vertex angles of a simplex with some applications. (English summary) **97f:52017**

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Gregorac, Robert J. A general 3-4-5 puzzle. (English summary) **97j:51027**

Items with secondary classifications in 51M20

Et-Taoui, B. Sur les m-uples F-réguliers dans les espaces projectifs complexes. (English and French summaries) [F-regular m-tuples in complex projective spaces] **97j:51021**
Götze, Heinz Friedrich II and the love of geometry. **97a:01018**
Leytem, Charles Hidden symmetries in the snub dodecahedron. (English summary) **97d:52020**
Samelson, Hans In defense of Euler. **97j:01015**

51M25 Length, area and volume [see also 26B15]

Akiba, Shigeo *see* **Yoshinaga, Etsuo, 97a:51035**
Amir-Moéz, Ali R. (*with* Byerly, Robert E.) Pythagorean theorem in unitary spaces. (English summary) **97d:51033**
Bagby, Richard J. Volumes of cones. **97g:51016**
Byerly, Robert E. *see* **Amir-Moéz, Ali R., 97d:51033**
Chengalvarayan, P. Analysis and applications of Chengalvarayan's formulae. (English summary)
Georgescu, C. *see* **Iordache, Doina, 97i:51036**
Huang, Wen-Ling Geraden-Abbildungen, die den Flächeninhalt 1 von Dreiecken erhalten. (German summary) [Line mappings which preserve the area 1 of triangles] **97d:51034**
Iordache, Doina (*with* Georgescu, C.) Méthode géométrique de détermination du nombre π. (English, French and Romanian summaries) [Geometric method for determining π] **97i:51036**
Joe, Barry *see* **Liu, Andy C. F., 97m:51023**
Kishan, Hari[2] Area of polygon.
Liu, Andy C. F. (*with* Joe, Barry) Relationship between tetrahedron shape measures. (English summary) **97m:51023**
Lu, Chun Chu A higher-dimensional extension of Chapple's theorem and its applications. (Chinese. English and Chinese summaries) **97e:51020**
Porter, Gerald J. k-volume in $\mathbf{R}^n$ and the generalized Pythagorean theorem. **97a:51033**
Sun, Xue Feng A new proof and extensions of the Pythagorean theorem. (Chinese. English and Chinese summaries) **97g:51017**
Veljan, Darko The distance matrix for a simplex. (English and Serbo-Croatian summaries) **97a:51034**
Xu, Yin Feng On the minimum distance determined by $n(\leq 7)$ points in an isosceles right triangle. (English summary) **97d:51035**
Yoshinaga, Etsuo (*with* Akiba, Shigeo) Very simple proofs of generalized Pythagorean theorem. **97a:51035**

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Alonso, Laurent (*with* Cerf, Raphaël) The three-dimensional polyominoes of minimal area. (English summary) **97g:05051**
Cerf, Raphaël *see* **Alonso, Laurent, 97g:05051**
Du, Jia Bao A lower bound for Heilbronn's problem. (Chinese. English and Chinese summaries) **97a:51032**
Harborth, Heiko (*with* Kemnitz, Arnfried; Robbins, Neville) Non-existence of Fibonacci triangles. (English summary) **97i:11013**
Hu, Yao Zong A new geometric inequality. (Chinese. English and Chinese summaries) **97k:51011**
Jordan, James H. *see* **Peterson, Blake E., 97d:11031**
Kemnitz, Arnfried *see* **Harborth, Heiko; et al., 97i:11013**
Peterson, Blake E. (*with* Jordan, James H.) The rational heart of the integer Fibonacci pentagons. **97d:11031**
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Su, Hua Ming Two inequalities for a simplex generated by feet of perpendiculars. (Chinese. English and Chinese summaries) **97b:51015**

51M30 Line geometries and their generalizations [see also 53A25]

Kożniewski, Edwin Geometric characterization of line geometry over quadratically complete field. **97j:51028**
Stoss, Hanns-Jörg ★ Treffgeraden und Nullinvarianz. (German. German summary) [Transversals and zero invariance] **97m:51024**

Items with secondary classifications in 51M30

Hangan, Theodor A trigonometric law for Grassmann manifolds. (English and Romanian summaries) (*see* **97e:53002**)

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

Kaczmarek, Jerzy (*with* Prętki, Czesław) Tangential pencil of sphero-conics. (English summary) **97b:51016**

Prętki, Czesław *see* **Kaczmarek, Jerzy**, **97b:51016**

51M99 None of the above, but in this section

Buckley, J. J. (*with* Eslami, Esfandiar) Fuzzy plane geometry. I. Points and lines. (English summary) **97k:51013**

Eslami, Esfandiar *see* **Buckley, J. J.**, **97k:51013**

Mi, Jia Xin Theory of equations and curves. II. Radical solutions of the family division, group-division and classification of equations of higher degree. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51M99

Crapo, Henry (*with* Richter-Gebert, Jürgen) Automatic proving of geometric theorems. **97b:68196**

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51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry [see also 65D17, 68U07]

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Cheng, Min De *see* **Xu, Chuan Xiang; et al.**

Cichosz, Joanna (*with* Zarzeka-Raczkowska, Ewa) Anaglyph pictorial image of a multicell. (English and Polish summaries) **97a:51036**

Czech, Ludmila Grassmann notation of conic constructions. (English summary) **97a:51037**

Jonak, Marcin (*with* Piekarski, Leszek) Courbes de 4-ème degré dans la transformation quadratique (3CC). (English and Polish summaries) [Fourth-degree curves in the (3CC) quadratic transform] **97b:51017**

Nicolovius, Rüdiger Geometrische Grundlagen der Computergraphik. [Geometric foundations of computer graphics] **97f:51037**

Nie, Sheng Shi Finding lines of section and intersection of nonrevolution quadratic surfaces using homology transformations. (Chinese. English and Chinese summaries)

Piekarski, Leszek *see* **Jonak, Marcin**, **97b:51017**

Shi, Qing Yun *see* **Xu, Chuan Xiang; et al.**

Tan, Zeguang (*with* Brandstaetter, G.; Xu, Xiaoming) Method for solving the inverse problem of photogrammetry. (English and Chinese summaries) **97f:51038**

Xu, Chuan Xiang (*with* Shi, Qing Yun; Cheng, Min De) A stereovision approach based on Wu's method. (Chinese. English and Chinese summaries)

Xu, Xiaoming *see* **Tan, Zeguang; et al.**, **97f:51038**

Zarzeka-Raczkowska, Ewa *see* **Cichosz, Joanna**, **97a:51036**

51N10 Affine analytic geometry

Ignatenko, V. F. On the geometry of a generalized quadric. (English summary) **97m:51025**

Ma, Feng Ning *see* **Wang, Jin Min; et al.**, **97m:51026**

Wang, Jin Min (*with* Ma, Feng Ning; Zha, Jian Zhong; Zhang, Jie Xiao) An extension of Kruppa's theorem. (Chinese. English and Chinese summaries) **97m:51026**

Zha, Jian Zhong *see* **Wang, Jin Min; et al.**, **97m:51026**

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Items with secondary classifications in 51N10

Adelmeyer, Moritz (*with* Stoffer, Daniel) Iteration einer n-Ecksabbildung. (German summary) [Iteration of an n-gon mapping] **97d:51024**

Groß, Jürgen (*with* Trenkler, Götz) On the least squares distance between affine subspaces. (English summary) **97a:51024**

Stoffer, Daniel *see* **Adelmeyer, Moritz**, **97d:51024**

Trenkler, Götz *see* **Groß, Jürgen**, **97a:51024**

51N15 Projective analytic geometry

Dai, Xian Hua The algebraic representation of three-involutory transformations in complex geometric forms. (Chinese. English and Chinese summaries) **97g:51018**

Divjak, Blaženka The n-dimensional simply isotropic space. (English and Croatian summaries) **97m:51027**

Feng, Wan Xia (*with* Zeng, Yan; Yu, Guo Liang) The relations between polarization and circular conic curves. (Chinese. English and Chinese summaries) **97m:51028**

Heyden, Anders Geometry and algebra of multiple projective transformations. (English summary) **97h:51026**

Li, Hou Rong A necessary and sufficient condition for a projective correspondence of a one-dimensional fundamental form to be a perspective correspondence. (Chinese. English and Chinese summaries)

Liu, Shi Ze The determination and properties of homology transformations in higher-dimensional projective spaces. (Chinese. English and Chinese summaries) **97a:51038**

Łoskiewicz, Genowefa Sur les propriétés nouvelles de faisceau ponctuel de coniques. (English and Polish summaries) [Some new properties of pencils of conics] **97j:51029**

Quan, Long Algebraic and geometric invariant of a pair of non-coplanar conics in space. (English summary) **97d:51036**

Sudoplatov, S. V. Trigonometries of groups on the projective plane. (Russian. Russian summary) **97h:51027**

Tian, Yu Ping[2] The important position of the cross ratio in projective geometry. (Chinese. English and Chinese summaries) **97h:51028**

— Rectangular coordinate systems from a projective standpoint. (Chinese. English and Chinese summaries)

Urban, Herbert Metric properties of the Stephanos bijection. (English summary) **97a:51039**

Wang, Jing Geng Construction of a two-dimensional projective coordinate system using a homogeneous vector. (Chinese. English and Chinese summaries) **97f:51037**

Yi, Shu Hong The quasipoles and quasipolar lines of curves of second order. (Chinese. English and Chinese summaries) **97a:51040**

Yu, Guo Liang *see* **Feng, Wan Xia; et al.**, **97m:51028**

Zaks, Joseph On the products of cross-ratios on diagonals of polygons. (English summary) **97a:51041**

Zarzeka-Raczkowska, Ewa Invertible complex single-projection mappings. (English summary) **97g:51019**

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Czech, Ludmila Grassmann notation of conic constructions. (English summary) **97a:51037**

Hawrylycz, Michael Arguesian identities in invariant theory. (English summary) **97f:15060**

Jonak, Marcin (*with* Piekarski, Leszek) Courbes de 4-ème degré dans la transformation quadratique (3CC). (English and Polish summaries) [Fourth-degree curves in the (3CC) quadratic transform] **97b:51017**

Kaczmarek, Jerzy (*with* Prętki, Czesław) Tangential pencil of sphero-conics. (English summary) **97b:51016**

Kunz, Ernst (*with* Lux, Rainer) Durchmesser und Mittelpunkte algebraischer Hyperflächen. (German summary) [Diameters and midpoints of algebraic hypersurfaces] **97g:14037**

Lux, Rainer *see* **Kunz, Ernst**, **97g:14037**

Ma, Feng Ning *see* **Wang, Jin Min; et al.**, **97m:51026**

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Shiffman, Bernard Synthetic projective geometry and Poincaré's theorem on automorphisms of the ball. **97h:32033**

Wang, Jin Min (*with* Ma, Feng Ning; Zha, Jian Zhong; Zhang, Jie Xiao) An extension of Kruppa's theorem. (Chinese. English and Chinese summaries) **97m:51026**

Zha, Jian Zhong *see* **Wang, Jin Min; et al.**, **97m:51026**

Zhang, Jie Xiao *see* **Wang, Jin Min; et al.**, **97m:51026**

51N20 Euclidean analytic geometry

Casanova, Gaston Points invariants dans le produit de trois inversions quelconques. (English summary) [Invariant points in the product of three inversions] **97b:51018**

Drucker, Daniel S. (*with* Locke, Phil) A natural classification of curves and surfaces with reflection properties. **97j:51030**

Dubeau, François Horizontal circular curves and cubics. (English summary) **97m:51029**

Duncan, John (*with* Khavinson, Dmitry; Shapiro, Harold S.) Rectangular parallelepipeds in ellipsoids. (English summary) **97f:51039**

Haase, Dietrich (*with* Stachel, Hellmuth) Almost-orthonormal vector systems. (English summary) **97j:51031**

Havlicek, Hans On the matrices of central linear mappings. (English summary) **97g:51020**

— *see also* **Stachel, Hellmuth**, **97g:51022**

Khavinson, Dmitry *see* **Duncan, John; et al.**, **97f:51039**

Lin, Zu Cheng Hyperspheres tangent to the edges of an n-dimensional simplex. (Chinese. Chinese summary) **97a:51042**

Locke, Phil *see* **Drucker, Daniel S.**, **97j:51030**

Murthy, Amarnath On the length of perpendicular from a point on a line in 3-D coordinate geometry. **97a:51043**

Neĭfel'd, È. G. Dual cubic polarities and related geometries. (Russian) **97f:51040**

Nievergelt, Yves Intersections of planes and helices, or lines and sinusoids. (English summary) **97g:51021**

Pulej, Marian La transformation d'espace 3-dimensionnel à l'aide de la polarité par rapport à une base variable de quadriques homothétiques. (English and Polish summaries) [Transformation of three-dimensional space using polarity with respect to a variable basis of homothetic quadrics] **97j:51032**

Shapiro, Harold S. *see* **Duncan, John; et al.**, **97f:51039**

Stachel, Hellmuth Zur Kennzeichnung der Zentralprojektionen nach H. Havlicek. [On the characterization of central projections according to H. Havlicek] **97g:51022**

— *see also* **Haase, Dietrich**, **97j:51031**

Szymański, Witold About a method of constructing a circular conical surface. (English and Polish summaries) **97g:51023**

Zhou, Liang De A study of the intersections of ruled surfaces with the same generators. (Chinese. English and Chinese summaries) **97a:51044**

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Biswas, Kuhu *see* **Ray, Asok Kumar**, **97a:15044**

Giering, O. Kreisflächen mit Kreisachsenkegeln. [Circular surfaces with the generating circles' axes on cones] **97h:53001**

Heyden, Anders Geometry and algebra of multiple projective transformations. (English summary) **97h:51026**

Ignatenko, V. F. On the geometry of a generalized quadric. (English summary) **97m:51025**

Iribarren, Gabriel *see* **Rivara, María-Cecilia**, **97a:65079**

Lester, June A. Triangles. I. Shapes. (English summary) **97h:51021**

— Triangles. II. Complex triangle coordinates. (English summary) **97h:51022**

Martin, George E. ★ The foundations of geometry and the non-Euclidean plane. (English summary) **97f:51001**

Ray, Asok Kumar (*with* Biswas, Kuhu) Exterior product, Gram-determinant and multiparallelogram. **97a:15044**

Rivara, Maria-Cecilia (*with* Iribarren, Gabriel) The 4-triangles longest-side partition of triangles and linear refinement algorithms. (English summary) **97a:65079**
Yu, Zhihong Proof of Longuerre's theorem and its extensions by the method of polar coordinates. (English summary) **97k:51010**

51N25 Analytic geometry with other transformation groups

Borisov, Adriyan V. Subgroups of the isometry group in a Galilean space. I. The cases of two- and three-parametric subgroups. (English summary) **97a:51045**
— Subgroups of the isometry group in a Galilean space. II. The cases of four- and five-parametric subgroups. (English summary) **97m:51030**
Casanova, Gaston Points invariants dans le produit de trois inversions. (English summary) [Invariant points in the product of three inversions] **97a:51046**
Iguchi, Kazumoto What is the meaning of the Avishai-Berend-Glaubman trace identity for matrices in SL(2, **R**)?: Grammians for vectors in a three-dimensional non-Euclidean space. (English summary) **97a:51047**
Rosenfeld, Boris A. Sur la loi de sinus sur la variété de Grassmann. (English summary) [The law of sines for Grassmann manifolds] **97i:51038**
Schoger, Astrid Ulrike Koppelkurven und Mittelpunktskegelschnitte in der hyperbolischen Ebene. (English summary) [Coupler curves and central conics in the hyperbolic plane] **97g:51024**
Ščurić-Čudovan, Vlasta Klassifikationstheorie der Kegelschnittbüschel vom Typ VI der isotropen Ebene. (English summary) [Classification theory of pencils of conics of type VI of the isotropic plane] **97a:51048**

Items with secondary classifications in 51N25

Perline, Ron Non-Euclidean flashlights. **97d:51026**

51N30 Geometry of classical groups [see also 20Gxx, 14L35]

Urban, Herbert Dualisierung von Kurven in Cayley/Klein-Ebenen. (German summary) [Dualization of curves in Cayley-Klein planes] **97g:51025**

51N35 Questions of classical algebraic geometry [see also 14Nxx]

Cárdenas, Humberto (*with* San Agustín Chi, Rodolfo) On Veronese's decomposition theorem and the geometry of outer automorphisms of S_6. (English summary) **97i:51039**
San Agustín Chi, Rodolfo *see* **Cárdenas, Humberto**, **97i:51039**

Items with secondary classifications in 51N35

Barth, Wolf Paul (*with* Bauer, Thomas) Poncelet theorems. **97f:14051**
Bauer, Thomas *see* **Barth, Wolf Paul**, **97f:14051**
Feng, Rong-quan *see* **Gao, Jia-fu; et al.**, **97c:15024**
Gao, Jia-fu (*with* Wan, Zhe Xian; Feng, Rong-quan; Wang, Dian-jun) Geometry of symmetric matrices and its applications. III. (English summary) **97c:15024**
Wan, Zhe Xian *see* **Gao, Jia-fu; et al.**, **97c:15024**
Wang, Dian-jun *see* **Gao, Jia-fu; et al.**, **97c:15024**

51N99 None of the above, but in this section

Items with secondary classifications in 51N99

Mi, Jia Xin Theory of equations and curves. II. Radical solutions of the family division, group-division and classification of equations of higher degree. (Chinese. English and Chinese summaries)
Oosterlinck, André *see* **Pollefeys, Marc; et al.**, **97k:68169**
Pollefeys, Marc (*with* Van Gool, Luc; Oosterlinck, André) Euclidean self-calibration via the modulus constraint. (English summary) **97k:68169**
Van Gool, Luc *see* **Pollefeys, Marc; et al.**, **97k:68169**

51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

Kreinovich, Vladik Ya. Space-time is "square times" more difficult to approximate than Euclidean space. (English summary) **97h:51029**
Smith, Jonathan D. H. (*with* Ungar, Abraham A.) Abstract space-times and their Lorentz groups. (English summary) **97d:51037**
Ungar, Abraham A. Extension of the unit disk gyrogroup into the unit ball of any real inner product space. (English summary) **97j:51033**
— *see also* **Smith, Jonathan D. H.**, **97d:51037**
Yu, Xue Gang (*with* Yu, Xue Qian) Hyperbolic complex functions and the theory of relativity. (Chinese. Chinese summary) **97c:51013**
Yu, Xue Qian *see* **Yu, Xue Gang**, **97c:51013**

Items with secondary classifications in 51P05

Konisi, Gaku (*with* Saito, Takesi) Gauge theory on discrete spaces without recourse to non-commutative geometry. (English summary) **97c:81121**
Piirainen, Reijo Möbius transformation and conformal relativity. (English summary) **97g:83011a**
— Corrigendum: "Möbius transformation and conformal relativity". **97g:83011b**
Saito, Takesi *see* **Konisi, Gaku**, **97c:81121**

52–XX Convex and discrete geometry

52–01 Instructional exposition (textbooks, tutorial papers, etc.)

Zong, Chuan Ming ★ Strange phenomena in convex and discrete geometry. (English summary) **97m:52001**

Items with secondary classifications in 52–01

Banchoff, Thomas F. ★ Beyond the third dimension. (English summary) **97a:00001**

52–02 Research exposition (monographs, survey articles)

Groemer, H. ★ Geometric applications of Fourier series and spherical harmonics. (English summary) **97j:52001**
Kalai, Gil Combinatorics and convexity. **97g:52001**
O'Rourke, Joseph Computational geometry column 30. (English summary) (*see* **97k:68167**)
Skopenkov, A. B. Borsuk's problem. **97h:52001**
Thompson, Anthony C. ★ Minkowski geometry. (English summary) **97f:52001**

Items with secondary classifications in 52–02

Martini, Horst Cross-sectional measures. **97b:52008**
Zong, Chuan Ming ★ Strange phenomena in convex and discrete geometry. (English summary) **97m:52001**

Items listed otherwise than by author

Problems:
Matroid theory Open problems. (*see* **97d:05002**)

52–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 52–03

Bitterfeld, Gloria (*with* Browne, J. M.; Steiner, Joseph M.) An evaluation of the *Ausdehnungslehre* as a language for formulating a class of problems in geometry and mechanism design. (English and German summaries) **97h:01012**
Browne, J. M. *see* **Bitterfeld, Gloria; et al., 97h:01012**
Samelson, Hans In defense of Euler. **97j:01015**
Steiner, Joseph M. *see* **Bitterfeld, Gloria; et al., 97h:01012**
Stillwell, John Poincaré, geometry and topology. (French summary) **97e:01012**

52–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 52–06

(Axel, Françoise) *see* **Beyond quasicrystals, 97e:00004**
(Gratias, Denis) *see* **Beyond quasicrystals, 97e:00004**
(Stoka, Marius) *see* **Conference: Integral Geometry, Geometric Probability Theory and Convex Bodies, 97c:00038**

Items listed otherwise than by author

Beyond quasicrystals ★ Beyond quasicrystals. **97e:00004**
Cagliari ★ Terzo Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. [Third Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97d:60002**
Conference:
Integral Geometry, Geometric Probability Theory and Convex Bodies ★ II Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. (Italian) [2nd Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97b:00019**
— ★ Terzo Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. [Third Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97d:60002**
— ★ V Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. [5th Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97c:00038**
Lecce ★ II Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. (Italian) [2nd Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97b:00019**
Les Houches ★ Beyond quasicrystals. **97e:00004**
Milan ★ V Convegno Italiano di Geometria Integrale, Probabilità Geometriche e Corpi Convessi. [5th Italian Conference on Integral Geometry, Geometric Probability Theory and Convex Bodies] **97c:00038**
School:
Beyond Quasicrystals ★ Beyond quasicrystals. **97e:00004**

52Axx General convexity

52A01 Axiomatic and generalized convexity

Büber, Tekamül (*with* Kirk, W. A.) Convexity structures and the existence of minimal sets. (English summary) **97g:52002**
Chepoi, V. D. (*with* Topalè, O. I.) Tverberg numbers for cellular bipartite graphs. **97a:52001**
Fink, Eugene (*with* Wood, Derick) Fundamentals of restricted-orientation convexity. (English summary) **97c:52001**
Goodman, Jacob E. (*with* Pollack, Richard M.) Foundations of a theory of convexity on affine Grassmann manifolds. **97a:52002**
Kirk, W. A. *see* **Büber, Tekamül, 97g:52002**
Martynchik, V. N. *see* **Metel'skiĭ, N. N., 97m:52002**
Metel'skiĭ, N. N. (*with* Martynchik, V. N.) Partial convexity. (Russian. Russian summary) **97m:52002**
Pollack, Richard M. *see* **Goodman, Jacob E., 97a:52002**
Topalè, O. I. *see* **Chepoi, V. D., 97a:52001**
Wood, Derick *see* **Fink, Eugene, 97c:52001**

Items with secondary classifications in 52A01

Beltagy, M. (*with* Sakr, I. A.) k-convexity in Euclidean 3-apace. (English summary) **97j:52003**
Künzi, Hans-Peter A. Structures uniformes et espaces totalement convexes. [Uniform structures and totally convex spaces] **97i:46006**
Sakr, I. A. *see* **Beltagy, M., 97j:52003**
Smith, Jonathan D. H. (*with* Thur, Lois) Subdifferentiation of monotone functions from semilattices to distributive lattices. (English summary) **97e:06004**
Thur, Lois *see* **Smith, Jonathan D. H., 97e:06004**

52A05 Convex sets without dimension restrictions

Chatterjee, Dipak Geometry of M-convex sets. (English summary)
Nachbin, Leopoldo On the convexity of sets. (English summary) **97d:52001**

Items with secondary classifications in 52A05

Chandra, Prabhat (*with* Singh, Lal Babu) On balanced extension of a set. (English summary)
De Blasi, Francesco S. (*with* Myjak, Józef) Some properties of supporting hyperplanes to compact sets in Banach spaces. (English summary) **97g:46012**
Kemper, Ralf Epimorphisms of separated totally convex spaces. (English summary) **97h:46118**
Myjak, Józef *see* **De Blasi, Francesco S., 97g:46012**
de Sá, Eduardo Marques The stability of the unit balls of symmetric and unitarily invariant norms. (English summary) **97j:15020**
Singh, Lal Babu *see* **Chandra, Prabhat**
Wong, Kam-Chau Computability of minimizers and separating hyperplanes. (English summary) **97k:03056**

52A07 Convex sets in topological vector spaces [see also 46A55]

Balaj, Mircea Covering properties of convex sets. (*see* **97i:00007**)
Grzybowski, Jerzy (*with* Urbański, Ryszard) On convex class of pairs of convex bodies. (English summary) **97m:52005**
Madhusudana Rao, J. *see* **Ramabhadrasarma, Ivatury**
Ramabhadrasarma, Ivatury (*with* Madhusudana Rao, J.) Strict metric convexity in a metric space. (English summary)
Semënov, P. V. On the paraconvexity of star-like sets. (Russian. Russian summary) **97k:52001**
Sosov, E. N. On convex sets in a special metric space. (Russian) **97m:52003**
Urbański, Ryszard On minimal convex pairs of convex compact sets. **97m:52004**
— *see also* **Grzybowski, Jerzy, 97m:52005**

Items with secondary classifications in 52A07

Cao, Bing Yuan A further study of separation theorems for extendable convex sets. (Chinese. English and Chinese summaries) **97f:46009**
Hu, Zhibao (*with* Smith, Mark A.) On the extremal structure of the unit balls of Banach spaces of weakly continuous functions and their duals. (English summary) **97h:46054**
Klee, Victor (*with* Veselý, Libor; Zanco, Clemente) Rotundity and smoothness of convex bodies in reflexive and nonreflexive spaces. (English summary) **97h:46024**
Smith, Mark A. *see* **Hu, Zhibao, 97h:46054**
Stavrakas, Nick Reflexivity and visibility. (English summary) **97h:46003**
Thomas, Erik G. F. Integral representations in conuclear cones. (English summary) **97d:46007**
Veselý, Libor *see* **Klee, Victor; et al., 97h:46024**
Zanco, Clemente *see* **Klee, Victor; et al., 97h:46024**

52A10 Convex sets in 2 dimensions (including convex curves) [see also 53A04]

Cieślak, W. (*with* Miernowski, A.; Mozgawa, W.) Isoptics of a closed strictly convex curve. II. **97m:52006**
Gonzalez Corbalan, Antonio (*with* Mazon, M.; Recio Muñiz, Tomás J.) Geometry of bisectors for strictly convex distances. (English summary) **97b:52001**
Grenov, A. I. *see* **Tuzikov, A. V.; et al., 97j:52002**
Kaiser, Mark J. The ε-positive center figure. (English summary) **97g:52003**
Kurusa, Árpád Generalized X-ray pictures. (English summary) **97g:52004**
Margolin, G. L. *see* **Tuzikov, A. V.; et al., 97j:52002**
Mazon, M. *see* **Gonzalez Corbalan, Antonio; et al., 97b:52001**
Miernowski, A. *see* **Cieślak, W.; et al., 97m:52006**
Mozgawa, W. *see* **Cieślak, W.; et al., 97m:52006**
Recio Muñiz, Tomás J. *see* **Gonzalez Corbalan, Antonio; et al., 97b:52001**
Rychlik, Marek The equichordal point problem. (English summary) **97m:52007**
Tuzikov, A. V. (*with* Margolin, G. L.; Grenov, A. I.) Symmetrization and decomposition of convex polygons by a perimetric measure. (Russian. English and Russian summaries) **97j:52002**

Items with secondary classifications in 52A10

Alsina, Claudi (*with* Guijarro Carranza, Piedad; Tomás, M. S.) Characterizations of inner product structures involving the radius of the inscribed or circumscribed circumference. (English summary) **97j:46017**

Araújo, Paulo Ventura Barbier's theorem for the sphere and the hyperbolic plane. **97k:52006**
Awyong, Poh W. (*with* Scott, Paul R.) New inequalities for planar convex sets with lattice point constraints. (English summary) **97m:52023**
Bezdek, A. On the transversal-conjecture of Katchalski and Lewis. (English summary) **97b:52005**
Guijarro Carranza, Piedad *see* **Alsina, Claudi; et al., 97j:46017**
Katchalski, Meir (*with* Nashtir, David) On a conjecture of Danzer and Grünbaum. (English summary) **97a:52007**
Kupitz, Yaakov (*with* Martini, Horst; Wegner, Bernd) A linear-time construction of Reuleaux polygons. (English summary) **97h:52018**
Martini, Horst *see* **Kupitz, Yaakov; et al., 97h:52018**
Meijer, Henk (*with* Skiena, Steven S.) Reconstructing polygons from X-rays. (English summary) **97h:92006**
Nashtir, David *see* **Katchalski, Meir, 97a:52007**
Saroldi, Maurizio On the best estimate for perimeters of plane sets with the angle property. (English summary) **97f:52008**
Scott, Paul R. *see* **Awyong, Poh W., 97m:52023**
Shen, Junpei Characterization of the relatively compact subsets of $\mathfrak{p}_\alpha^{\text{single}}$ in space $B_{2,\theta}$. (English summary) **97f:46039**
Skiena, Steven S. *see* **Meijer, Henk, 97h:92006**
Tomás, M. S. *see* **Alsina, Claudi; et al., 97j:46017**
Wegner, Bernd Chord-stretching convexifications of spherical polygons. (English summary) **97i:52021**
— *see also* **Kupitz, Yaakov; et al., 97h:52018**

52A15 Convex sets in 3 dimensions (including convex surfaces) [see also 53A05, 53C45]

Bauer, Christina Minimal and reduced pairs of convex bodies. (English summary) **97k:52002**
Beltagy, M. (*with* Sakr, I. A.) k-convexity in Euclidean 3-space. (English summary) **97j:52003**
Dolbilin, N. P. (*with* Shtan′ko, M. A.; Shtogrin, M. I.) Nonbendability of polyhedral spheres with even-sided faces. (Russian) **97g:52005**
— (*with* Shtan′ko, M. A.; Shtogrin, M. I.) Nonbendability of zonohedra. (Russian) **97j:52004**
Hamilton, Richard S. Worn stones with flat sides. **97m:52008**
Pallaschke, Diethard (*with* Urbański, Ryszard) A continuum of minimal pairs of compact convex sets which are not connected by translations. (English summary) **97i:52001**
Pogorelov, A. V. The bending of a convex surface into a convex surface with a given spherical representation. (Russian. Russian summary) **97e:52002**
Sakr, I. A. *see* **Beltagy, M., 97j:52003**
Shtan′ko, M. A. *see* **Dolbilin, N. P.; et al., 97g:52005** *and* **97j:52004**
Shtogrin, M. I. *see* **Dolbilin, N. P.; et al., 97g:52005** *and* **97j:52004**
Urbański, Ryszard *see* **Pallaschke, Diethard, 97i:52001**
Zamfirescu, Tudor Conjugate points and closed geodesic arcs on convex surfaces. (English summary) **97g:52006**

52A20 Convex sets in n dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

Anisov, S. S. Projective convex curves. (English summary) **97m:52009**
Arocha Pérez, Jorge Luis (*with* Montejano, Luis; Morales, E.) A quick proof of Höbinger-Burton-Larman's theorem. (English summary) **97m:52010**
Bair, J. (*with* Dupin, J. C.) Gaine d'un polyèdre convexe et applications à la séparation. (English and French summaries) [Cover of a convex polyhedron and applications to separation] **97g:52007**
Bárány, I. (*with* Scarf, H. E.; Shallcross, D.) The topological structure of maximal lattice free convex bodies: the general case. (English summary) **97a:52003**
Boltyanskiĭ, V. G. Solution of the illumination problem for belt-bodies. (Russian. Russian summary) **97c:52003**
— (*with* Martini, Horst) On maximal primitive fixing systems. (English summary) **97d:52002**
Burago, Yu. D. (*with* Kalinin, B. V.) Smoothness and singularities of convex hypersurfaces. (Russian. Russian summary) **97e:52001**
Cheng, Xin Yue *see* **Zhou, Jiazu; et al., 97j:52006**
Coutat, P. More on continuous closed convex sets. (English summary) **97g:52008**
Dupin, J. C. *see* **Bair, J., 97g:52007**
Goodman, Jacob E. (*with* Pollack, Richard M.; Wenger, Rephael) Bounding the number of geometric permutations induced by k-transversals. (English summary) **97m:52011**
Gruber, Peter M. (*with* Ludwig, Monika) A Helmholtz-Lie type characterization of ellipsoids. II. (English summary) **97h:52002**
von Hohenbalken, Balder *see* **Lewis, Ted; et al., 97c:52005**
Horst, Reiner On generalized bisection of n-simplices. (English summary) **97f:52002**
Hug, Daniel Curvature relations and affine surface area for a general convex body and its polar. (English summary) **97c:52004**
Kalinin, B. V. *see* **Burago, Yu. D., 97e:52001**
Klee, Victor *see* **Lewis, Ted; et al., 97c:52005**
Lewis, Ted (*with* von Hohenbalken, Balder; Klee, Victor) Common supports as fixed points. (English summary) **97c:52005**
Li, Hai Zhong *see* **Zhou, Jiazu; et al., 97j:52006**
Ludwig, Monika *see* **Gruber, Peter M., 97h:52002**
Makai, Endre, Jr. (*with* Soltan, V.) Lower bounds on the numbers of shadow-boundaries and illuminated regions of a convex body. (English summary) **97d:52003**
— (*with* Martini, Horst) On bodies associated with a given convex body. (English summary) **97m:52012**
— (*with* Martini, Horst) The cross-section body, plane sections of convex bodies and approximation of convex bodies. I. (English summary) **97m:52013**
Martini, Horst Shadow-boundaries of convex bodies. (English summary) **97j:52005**
— *see also* **Boltyanskiĭ, V. G., 97d:52002**; **Makai, Endre, Jr., 97m:52012** *and* **97m:52013**
Montejano, Luis (*with* Shchepin, E. V.) A characterization of convex sets in terms of acyclic support sets. **97f:52003**
— *see also* **Arocha Pérez, Jorge Luis; et al., 97m:52010**
Morales, E. *see* **Arocha Pérez, Jorge Luis; et al., 97m:52010**
Moszyńska, Maria (*with* Żukowski, Tomasz) Duality of convex bodies. (English summary) **97g:52009**
Peri, Carla Minimal shells containing a convex surface in Minkowski space. (English summary) **97f:52004**
Pollack, Richard M. *see* **Goodman, Jacob E.; et al., 97m:52011**
Scarf, H. E. *see* **Bárány, I.; et al., 97a:52003**
Sedykh, V. D. Apparent contour singularities of convex bodies. (English summary) **97a:52004**
Semenkova, E. A. On the analytic representation of half-spaces in finite-dimensional vector spaces. (Russian. English and Russian summaries) **97m:52014**
Shallcross, D. *see* **Bárány, I.; et al., 97a:52003**
Shchepin, E. V. *see* **Montejano, Luis, 97f:52003**
Soltan, V. Some notes on Eggleston's result about affine diameters. **97b:52002**
— *see also* **Makai, Endre, Jr., 97d:52003**
Tsolomitis, Antonis On the convolution body of two convex bodies. (English and French summaries) **97d:52004**
— Quantitative Steiner/Schwarz-type symmetrizations. (English summary) **97d:52005**
Wenger, Rephael *see* **Goodman, Jacob E.; et al., 97m:52011**
Zhou, Jiazu (*with* Li, Hai Zhong; Cheng, Xin Yue) Analogues of Hadwiger's theorem in space $\mathbf{R}^n$—sufficient conditions for a convex domain to enclose another. (English summary) **97j:52006**
Zucco, Andreana Typical properties in the space of convex bodies. (Italian) **97d:52006**
Żukowski, Tomasz *see* **Moszyńska, Maria, 97g:52009**

Items with secondary classifications in 52A20

Balaj, Mircea $(n+1)$-families of sets in general position. (English summary) **97h:52007**
Bezdek, A. (*with* Bezdek, K.) Conway's fried potato problem revisited. **97b:52006**
Bezdek, K. *see* **Bezdek, A., 97b:52006**
Boltyanskiĭ, V. G. (*with* Morales Amaya, E.) Minimal fixing systems for convex bodies. (English summary) **97d:52016**
Dinh Thê Lục Smooth representation of a parametric polyhedral convex set with application to sensitivity in optimization. (English summary) **97d:90098**
Fink, Eugene (*with* Wood, Derick) Fundamentals of restricted-orientation convexity. (English summary) **97c:52001**
Glasauer, Stefan (*with* Schneider, Rolf) Asymptotic approximation of smooth convex bodies by polytopes. (English summary) **97d:52008**
Goodey, Paul (*with* Schneider, Rolf; Weil, Wolfgang) On the determination of convex bodies by projection functions. (English summary) **97g:52017**
Goodman, Jacob E. (*with* Pollack, Richard M.) Foundations of a theory of convexity on affine Grassmann manifolds. **97a:52002**
Groemer, H. ★ Geometric applications of Fourier series and spherical harmonics. (English summary) **97j:52001**
Jerison, David A Minkowski problem for electrostatic capacity. (English summary) **97e:31003**
Kohlmann, Peter Splitting and pinching for convex sets. (English summary) **97a:52005**
Latała, Rafał (*with* Pycia, Marek) On the volume of convex hulls of sets on spheres. (English summary) **97f:52013**
Martynchik, V. N. *see* **Metel′skiĭ, N. N., 97m:52002**
Metel′skiĭ, N. N. (*with* Martynchik, V. N.) Partial convexity. (Russian. Russian summary) **97m:52002**
Morales Amaya, E. *see* **Boltyanskiĭ, V. G., 97d:52016**
Nachbin, Leopoldo On the convexity of sets. (English summary) **97d:52001**
Peri, Carla Approximation of compact sets by spherical shells. (English summary) **97g:52012**
Pollack, Richard M. *see* **Goodman, Jacob E., 97a:52002**
Przesławski, Krzysztof Centres of convex sets in L^p metrics. (English summary) **97g:52013**
Pycia, Marek *see* **Latała, Rafał, 97f:52013**
Schneider, Rolf *see* **Glasauer, Stefan, 97d:52008** *and* **Goodey, Paul; et al., 97g:52017**
Shen, Wen Xuan A chain of inequalities for the width of a simplex. (Chinese. English and Chinese summaries) **97g:52019**
Weil, Wolfgang *see* **Goodey, Paul; et al., 97g:52017**
Werner, Elisabeth The illumination bodies of a simplex. **97b:52007**
Wood, Derick *see* **Fink, Eugene, 97c:52001**
Zhang, Gao Yong Sections of convex bodies. (English summary) **97f:52015**
Živaljević, Rade T. In pursuit of colored Carathéodory-Bárány theorems. (English summary) **97e:52003**

52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [see also 46Bxx]

Bollobás, Béla (*with* Leader, Imre) Products of unconditional bodies. (English summary) **97c:52006**
Goodey, Paul (*with* Lutwak, Erwin; Weil, Wolfgang) Functional analytic characterizations of classes of convex bodies. **97i:52002**
Leader, Imre *see* **Bollobás, Béla, 97c:52006**
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52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

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Peri, Carla Integral geometry in the Minkowski plane. (Italian) **97c:52007**
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— Measurability of the family of pairs of parabolic cylinders in A_3. (Italian. English and Italian summaries) **97h:52004a**
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Lin, Xiao Song² (*with* Wang, Zhenghan) Integral geometry of plane curves and knot invariants. (English summary) **97m:57009**
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Pettineo, Maria Some random variables associated with random hyperspheres in Euclidean space E_n. (Italian) (*see* **97b:00019**)
Rataj, Jan Estimation of oriented direction distribution of a planar body. (English summary) **97c:60025**
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Weiss, Viola Second-order quantities for random tessellations of $\mathbb{R}^d$. (English summary) **97c:60026**

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52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)

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— (*with* Sakr, I. A.) k-convexity in Euclidean 3-space. (English and Arabic summaries) **97f:52006**
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52A35 Helly-type theorems

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Bandelt, Hans-Jürgen (*with* Chepoĭ, V. D.) A Helly theorem in weakly modular space. (English summary) **97h:52006**
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52A38 Length, area, volume [see also 26B15, 28A75, 49Q20]

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Latała, Rafał (*with* Pycia, Marek) On the volume of convex hulls of sets on spheres. (English summary) **97f:52013**
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Wei, Wen Chen *see* **Cheng, Li Xin, 97f:52012**
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52A39 Mixed volumes and related topics

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Groemer, H. ★ Geometric applications of Fourier series and spherical harmonics. (English summary) **97j:52001**
Kalinin, B. V. *see* **Burago, Yu. D., 97e:52001**
Lutwak, Erwin *see* **Goodey, Paul; et al., 97i:52002**
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Zhang, Gao Yong Sections of convex bodies. (English summary) **97f:52015**

52A40 Inequalities and extremum problems

Andreev, Nikolaĭ N. An extremal property of the icosahedron. (English summary) **97m:52022**
Awyong, Poh W. (*with* Scott, Paul R.) New inequalities for planar convex sets with lattice point constraints. (English summary) **97m:52023**
Bárány, I. The densest $(n+2)$-set in $\mathbf{R}^n$. **97a:52012**
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Brannen, Noah Samuel The Wills conjecture. (English summary) **97m:52024**
Fuglede, Bent Lower estimates of the isoperimetric deficit of nearly spherical domains in $\mathbf{R}^n$ in terms of asymmetry. (English summary) **97d:52017**
Leng, Gang Song (*with* Tang, Lihua) Some inequalities on the inradii of a simplex and of its faces. (English summary) **97c:52022**
Morales Amaya, E. *see* **Boltyanskiĭ, V. G., 97d:52016**
Scott, Paul R. *see* **Awyong, Poh W., 97m:52023**
Shen, Wen Xuan A chain of inequalities for the width of a simplex. (Chinese. English and Chinese summaries) **97g:52019**
Siu, Man Keung (*with* Tsang, Kai Man) Which inscribed N-gon in an ellipse has the longest perimeter? **97g:52020**
Sun, Ming Bao A new inequality for n-dimensional simplices. (Chinese. English and Chinese summaries) **97g:52021**
Tang, Lihua *see* **Leng, Gang Song, 97c:52022**
Tsang, Kai Man *see* **Siu, Man Keung, 97g:52020**
Wang, Jia *see* **Yang, Shi Guo, 97f:52017**
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Xu, Yin Feng (*with* Yang, Bo-Ting) An inequality for Voronoĭ diagrams. (Chinese. English and Chinese summaries) **97e:52009**
— *see also* **Yang, Bo-Ting, 97h:52010**
Yang, Bo-Ting (*with* Xu, Yin Feng) A class of geometric extremum problems. (Chinese. English and Chinese summaries) **97h:52010**
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Yang, Shi Guo (*with* Wang, Jia) An inequality for n-dimensional sines of vertex angles of a simplex with some applications. (English summary) **97f:52017**
Zucco, Andreana On the isoperimetric deficit in Minkowskian geometry. (English and Italian summaries) **97d:52018**

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Antoni, Carla (*with* Dalena, Angela) On a problem of P. Erdős. (English summary) **97b:52019**
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Awyong, Poh W. (*with* Scott, Paul R.) Width-diameter relations for planar convex sets with lattice point constraints. (English summary) **97b:52018**
Bőröczky, Károly, Jr. Some extremal properties of the regular simplex. **97a:52035**
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Caffarelli, Luis A. (*with* Jerison, David; Lieb, Elliott H.) On the case of equality in the Brunn-Minkowski inequality for capacity. **97f:31011**
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Cerf, Raphaël *see* **Alonso, Laurent, 97g:05051**
Colesanti, Andrea *see* **Campi, Stefano; et al., 97c:52018**
Dalena, Angela *see* **Antoni, Carla, 97b:52019**
Datta, Basudeb A discrete isoperimetric problem. (English summary) **97m:52033**
Dress, Andreas W. M. (*with* Yang, Lu; Zeng, Zhenbing) Heilbronn problem for six points in a planar convex body. (English summary) **97a:52029**
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Florian, August On the area sum of a convex set and its polar reciprocal. (English summary) **97i:52007**
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Goodey, Paul (*with* Zhang, Gao Yong) Characterizations and inequalities for zonoids. (English summary) **97c:52025**
Groemer, H. ★ Geometric applications of Fourier series and spherical harmonics. (English summary) **97j:52001**
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Hoory, S. (*with* Linial, Nathan) Central points for sets in $\mathbf{R}^n$ (or: The chocolate ice-cream problem). (English summary) **97e:28001**
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Ivanov, A. O. (*with* Tuzhilin, Alekseĭ Avgustinovich) Geometry of plane linear trees. (Russian) **97e:05070**
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Jerison, David *see* **Caffarelli, Luis A.; et al., 97f:31011**
Lassak, Marek Estimation of the volume of parallelotopes contained in convex bodies. (English summary) **97e:52007**
Latała, Rafał (*with* Pycia, Marek) On the volume of convex hulls of sets on spheres. (English summary) **97f:52013**
Lieb, Elliott H. *see* **Caffarelli, Luis A.; et al., 97f:31011**
Lin, Zu Cheng Hyperspheres tangent to the edges of an n-dimensional simplex. (Chinese. Chinese summary) **97a:51042**
Linial, Nathan *see* **Hoory, S., 97e:28001**
Martini, Horst Cross-sectional measures. **97b:52008**
Peri, Carla Minimal shells containing a convex surface in Minkowski space. (English summary) **97f:52004**
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Sarges, Olaf Redundance of vertices of the cube relatively to its minimal ellipsoid. (English summary) **97f:52024**
Saroldi, Maurizio On the best estimate for perimeters of plane sets with the angle property. (English summary) **97f:52008**
Schneider, Rolf Equality in the Aleksandrov-Fenchel inequality—present state and new results. **97c:52021**
Scott, Paul R. *see* **Awyong, Poh W., 97b:52018**
Tuzhilin, Alekseĭ Avgustinovich *see* **Ivanov, A. O., 97e:05070**
Veljan, Darko The distance matrix for a simplex. (English and Serbo-Croatian summaries) **97a:51034**
Wills, Jörg M. Isoperimetric inequalities with lattice constraints. **97f:52025**
Xu, Yin Feng On the minimum distance determined by $n(\leq 7)$ points in an isosceles right triangle. (English summary) **97d:51035**
Yang, Lu (*with* Zeng, Zhenbing) Heilbronn problem for seven points in a planar convex body. **97a:52030**
— *see also* **Dress, Andreas W. M.; et al., 97a:52029**
Yang, Shi Guo A geometric inequality for a finite set of points on a sphere and its applications. (English summary) **97m:51021**
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52A41 Convex functions and convex programs [see also 26B25, 90C25]

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Bianchi, Gabriele (*with* Colesanti, Andrea; Pucci, Carlo) On the second differentiability of convex surfaces. (English summary) **97a:26014**

Colesanti, Andrea *see* **Bianchi, Gabriele; et al., 97a:26014**
Coutat, P. More on continuous closed convex sets. (English summary) **97g:52008**
Goh, C. J. *see* **Yang, Xiao Qi, 97a:90046**
Hinderer, Karl (*with* Stieglitz, Michael) Minimization of quasi-convex symmetric and of discretely quasi-convex symmetric functions. (English summary) **97h:90032**
Hwang, Frank K. (*with* Rothblum, Uriel G.) Directional-quasi-convexity, asymmetric Schur-convexity and optimality of consecutive partitions. **97e:90065**
Nachbin, Leopoldo On the convexity of sets. (English summary) **97d:52001**
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Udrişte, Constantin ★ Convex functions and optimization methods on Riemannian manifolds. (English summary) **97a:49038**
Yang, Xiao Qi (*with* Goh, C. J.) On the intersection of two particular convex sets. (English summary) **97a:90046**

52A55 Spherical and hyperbolic convexity

Araújo, Paulo Ventura Barbier's theorem for the sphere and the hyperbolic plane. **97k:52006**
— Minimum area of a set of constant width in the hyperbolic plane. (English summary) **97k:52007**
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Dekster, Boris V. (*with* Wegner, Bernd) Chord-stretching convexifications of spherical polygons. (English summary) **97i:52021**

52A99 None of the above, but in this section

Beltagy, M. Local and global exposed points. (English summary) **97j:52012**

52Bxx Polytopes and polyhedra

52B05 Combinatorial properties (number of faces, shortest paths, etc.) [see also 05Cxx]

Adin, Ron M. A new cubical h-vector. (English and French summaries) **97i:52010**
Aichholzer, Oswin (*with* Aurenhammer, Franz) Classifying hyperplanes in hypercubes. (English summary) **97b:52010**
Atanassov, Krassimir Todorov On Sperner's lemma. **97g:52023**
Aurenhammer, Franz *see* **Aichholzer, Oswin, 97b:52010**
Chen, Beifang The geometric Dehn-Sommerville relations. (English summary) **97b:52011**
Chirkov, A. Yu. A lower bound for the number of vertices of the convex hull of integer and mixed-integer points of a polyhedron. (Russian. Russian summary) **97g:52024**
Chopra, Sunil (*with* Rao, M. R.) Facets of the k-partition polytope. (English summary) **97c:52023**
Edelman, Paul H. (*with* Reiner, Victor) The higher Stasheff-Tamari posets. (English summary) **97g:52025**
Elia, Michele A note on the distribution of vertex distances in semiregular polytopes. (English summary) **97j:52013**
Gévay, G. Kepler hypersolids. **97a:52013**
Hetyei, Gábor Invariants des complexes cubiques. (English and French summaries) [Invariants of cubical complexes] **97g:52026**
Imai, Hiroshi (*with* Imai, Keiko) Triangulation and convex polytopes. (Japanese) **97j:52014**
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Kleinschmidt, Peter (*with* Onn, Shmuel) Signable posets and partitionable simplicial complexes. (English summary) **97a:52014**
McMullen, Peter Weights on polytopes. (English summary) **97b:52012**
Onn, Shmuel *see* **Kleinschmidt, Peter, 97a:52014**
O'Rourke, Joseph Computational geometry column 27. (English summary) **97d:52019**
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Rao, M. R. *see* **Chopra, Sunil, 97c:52023**
Reiner, Victor *see* **Edelman, Paul H., 97g:52025**
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Items with secondary classifications in 52B05

Araujo, José O. (*with* Gamondi, Rubén M.) Generators and relations in finite groups. (Spanish) **97e:20070**
Chung, Sung Jin *see* **Murty, Katta G., 97c:90068**
Ehrenborg, Richard (*with* Readdy, Margaret) The r-cubical lattice and a generalization of the cd-index. (English summary) **97k:06014**
Ewald, Günter ★ Combinatorial convexity and algebraic geometry. (English summary) **97i:52012**
Gamondi, Rubén M. *see* **Araujo, José O., 97e:20070**
Greenberg, Peter (*with* Loebl, Martin) Strong connectivity of polyhedral complexes. (English summary) **97a:05138**
Hetyei, Gábor On the cd-variation polynomials of André and Simsun permutations. (English summary) **97j:06004**
Klee, Victor (*with* Kleinschmidt, Peter) Convex polytopes and related complexes. **97a:52016**
Kleinschmidt, Peter *see* **Klee, Victor, 97a:52016**
Lisoněk, Petr Closed forms for the number of polygon dissections. (English summary) **97j:52019**
Loebl, Martin *see* **Greenberg, Peter, 97a:05138**
Makai, Endre, Jr. (*with* Martini, Horst) On bodies associated with a given convex body. (English summary) **97m:52012**
Martini, Horst *see* **Makai, Endre, Jr., 97m:52012**
Murty, Katta G. (*with* Chung, Sung Jin) Segments in enumerating faces. (English summary) **97c:90068**
Readdy, Margaret *see* **Ehrenborg, Richard, 97k:06014**

52B10 Three-dimensional polytopes

Dillencourt, Michael B. Polyhedra of small order and their Hamiltonian properties. (English summary) **97e:52011**
Grünbaum, Branko A new rhombic hexecontahedron. **97a:52015**
— A new rhombic hexecontahedron—once more. Comment on: "A new rhombic hexecontahedron" [Geombinatorics **6** (1996), no. 1, 15–18; MR 97a:52015]. **97g:52027**
Leytem, Charles Hidden symmetries in the snub dodecahedron. (English summary) **97d:52020**
Szabó, László E. (*with* Talata, I.) An illumination problem for convex polyhedra. (English summary) **97m:52025**
Talata, I. *see* **Szabó, László E., 97m:52025**

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Bilinski, S. Die Familie der abgestumpften quasiregulären Polyeder. [The family of truncated quasiregular polyhedra] **97g:52037**
Bleecker, David D. Volume increasing isometric deformations of convex polyhedra. (English summary) **97g:52035**
Curtis, R. T. The regular dodecahedron and the binary Golay code. **97m:94023**
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Klein, D. J. (*with* Zhu, Hongyao) Resonance in elemental benzenoids. (English summary) **97k:92040**
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Zhu, Hongyao *see* **Klein, D. J., 97k:92040**

52B11 n-dimensional polytopes

Esselmann, Frank The classification of compact hyperbolic Coxeter d-polytopes with $d+2$ facets. (English summary) **97j:52015**
Hardin, R. H. (*with* Sloane, N. J. A.) McLaren's improved snub cube and other new spherical designs in three dimensions. (English summary) **97b:52013**
Klee, Victor (*with* Kleinschmidt, Peter) Convex polytopes and related complexes. **97a:52016**
Kleinschmidt, Peter *see* **Klee, Victor, 97a:52016**
Lee, Carl W. P.L.-spheres, convex polytopes, and stress. (English summary) **97c:52024**
Sloane, N. J. A. *see* **Hardin, R. H., 97b:52013**
Warren, Joe Barycentric coordinates for convex polytopes. (English summary) **97m:52026**

Items with secondary classifications in 52B11

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Blachman, Nelson M. Random exploration of the three regular polytopes. (English summary) **97k:94006**
Dowker, J. S. Heat kernels and polytopes. **97k:58159**
Dupin, J. C. *see* **Bair, J., 97g:52007**
Hibi, Takayuki The world of "enumeration". (Japanese) **97d:05016**
Kamenev, G. K. An algorithm for approximating polyhedra. (Russian. Russian summary) **97e:52002**
Kołodziejczyk, Krzysztof A new formula for the volume of lattice polyhedra. (English summary) **97k:52010**

52B12 Special polytopes (linear programming, centrally symmetric, etc.)

Arnstein, Bennett *see* **Gurkewitz, Rona, 97a:52017**
Biha, M. Didi (*with* Mahjoub, A. R.) k-edge connected polyhedra on series-parallel graphs. (English summary) **97e:52012**
Billera, Louis J. (*with* Sarangarajan, A.) All 0-1 polytopes are traveling salesman polytopes. (English summary) **97j:52016**
Bisztriczky, T. On a class of generalized simplices. (English summary) **97m:52027**
Deza, Michel-Marie (*with* Grishukhin, V. P.) Cut lattices and equiangular lines. (English summary) **97k:52008**
Giannopoulos, Apostolos A. On some vector balancing problems. (English summary) **97k:52009**
Goodey, Paul (*with* Zhang, Gao Yong) Characterizations and inequalities for zonoids. (English summary) **97c:52025**
Grishukhin, V. P. *see* **Deza, Michel-Marie, 97k:52008**
Gurkewitz, Rona (*with* Arnstein, Bennett) ★ 3-D geometric origami. (English summary) **97a:52017**
Laurent, Monique Graphic vertices of the metric polytope. (English summary) **97d:52021**
— Hilbert bases of cuts. (English summary) **97f:52018**
— (*with* Poljak, Svatopluk) Gap inequalities for the cut polytope. (English summary) **97c:52026**
Mahjoub, A. R. *see* **Biha, M. Didi, 97e:52012**
McMullen, Peter (*with* Schulte, Egon) Higher toroidal regular polytopes. (English summary) **97c:52027**
Nostrand, Barbara Ring extensions and chiral polytopes. (English summary) **97a:52018**

Poljak, Svatopluk *see* **Laurent, Monique, 97c:52026**
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Webb, Simon Central slices of the regular simplex. (English summary) **97e:52013**
Zhang, Gao Yong *see* **Goodey, Paul, 97c:52025**

Items with secondary classifications in 52B12

Ando, Kazutoshi (*with* Fujishige, Satoru) On structures of bisubmodular polyhedra. (English summary) **97g:90102**
Barnette, D. W. Generating the centrally symmetric 3-polyhedral graphs. (English summary) **97e:05122**
Bezdek, K. (*with* Hausel, T.) On the number of lattice hyperplanes which are needed to cover the lattice points of a convex body. **97a:52026**
Bondarenko, V. A. Polyhedral graphs and the complexity of combinatorial optimization problems. (Russian) **97i:90056**
Christof, T. (*with* Reinelt, Gerhard) Combinatorial optimization and small polytopes. **97g:90107**
Elia, Michele A note on the distribution of vertex distances in semiregular polytopes. (English summary) **97j:52013**
Fujishige, Satoru *see* **Ando, Kazutoshi, 97g:90102**
Hausel, T. *see* **Bezdek, K., 97a:52026**
Reinelt, Gerhard *see* **Christof, T., 97g:90107**
Stachel, Hellmuth The HEUREKA-polyhedron. **97b:52024**

52B15 Symmetry properties of polytopes

Fowler, P. W. (*with* Redmond, D. B.) Symmetry aspects of leapfrog and truncated polyhedra. (English summary) **97h:52011**
Redmond, D. B. *see* **Fowler, P. W., 97h:52011**

52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A08, 13F20, 13Hxx]

Brion, Michel Polytopes convexes entiers. [Integral convex polytopes] **97d:52022**
Deza, Michel-Marie (*with* Grishukin, V. P.) L-polytopes and equiangular lines. (English summary) **97a:52019**
Ewald, Günter ★ Combinatorial convexity and algebraic geometry. (English summary) **97i:52012**
Grishukin, V. P. *see* **Deza, Michel-Marie, 97a:52019**
Kołodziejczyk, Krzysztof A new formula for the volume of lattice polyhedra. (English summary) **97k:52010**
McDonald, John Christopher Fiber polytopes and fractional power series. (English summary) **97a:52020**
Moshchevitin, N. G. Sharpening of an estimate for the index in the octahedron problem. (Russian. Russian summary) **97e:52014**
Sturmfels, Bernd (*with* Weismantel, Robert; Ziegler, Günter M.) Gröbner bases of lattices, corner polyhedra, and integer programming. (English summary) **97a:52021**
— On vector partition functions. (English summary) **97b:52014**
Tsuchiya, Morimasa On uniqueness of manifold posets and locally Cohen-Macaulay posets. (English summary) **97k:52011**
Weismantel, Robert *see* **Sturmfels, Bernd; et al., 97a:52021**
Ziegler, Günter M. *see* **Sturmfels, Bernd; et al., 97a:52021**

Items with secondary classifications in 52B20

Brion, Michel (*with* Vergne, Michèle) Une formule d'Euler-Maclaurin pour les fonctions de partition. (English and French summaries) [An Euler-Maclaurin formula for partition functions] **97a:11164**
— (*with* Vergne, Michèle) Une formule d'Euler-Maclaurin pour les polytopes convexes rationnels. (English and French summaries) [An Euler-Maclaurin formula for rational convex polytopes] **97a:11165**
Chan, Clara S. (*with* Jungreis, Douglas; Stong, Richard A.) Depths and Betti numbers of homology manifolds. (English summary) **97b:57019**
Fulton, William (*with* Sturmfels, Bernd) Intersection theory on toric varieties. (English summary) **97h:14070**
Herzog, Jürgen (*with* Hibi, Takayuki) Upper bounds for the number of facets of a simplicial complex. (English summary) **97g:13031**
Hetyei, Gábor Invariants des complexes cubiques. (English and French summaries) [Invariants of cubical complexes] **97g:52026**
Hibi, Takayuki *see* **Herzog, Jürgen, 97g:13031** *and* **Terai, Naoki, 97k:13017**
Jungreis, Douglas *see* **Chan, Clara S.; et al., 97b:57019**
Li, Tien-Yien (*with* Wang, Xiaoshen) The BKK root count in $\mathbf{C}^n$. (English summary) **97d:14089**
de Loera, Jesús A. (*with* Sturmfels, Bernd; Thomas, Rekha R.) Gröbner bases and triangulations of the second hypersimplex. (English summary) **97b:13035**
Park, Hye Sook Products on the Chow rings for toric varieties. **97h:14073**
Rahmati, Farhad Remark on the ampleness of invertible sheaves in compact projective toric variety. (English summary) **97k:14052**
Shustin, E. I. Critical points of real polynomials, subdivisions of Newton polyhedra and topology of real algebraic hypersurfaces. (English summary) **97g:14040**
Stong, Richard A. *see* **Chan, Clara S.; et al., 97b:57019**
Sturmfels, Bernd ★ Gröbner bases and convex polytopes. (English summary) **97b:13034**
— *see also* **de Loera, Jesús A.; et al., 97b:13035** *and* **Fulton, William, 97h:14070**
Terai, Naoki Betti numbers of monomial ideals and its application to combinatorics. (Japanese summary) **97e:13023**
— (*with* Hibi, Takayuki) Finite free resolutions and 1-skeletons of simplicial complexes. (English summary) **97k:13017**
Thomas, Rekha R. *see* **de Loera, Jesús A.; et al., 97b:13035**
Vergne, Michèle *see* **Brion, Michel, 97a:11164** *and* **97a:11165**
Wang, Xiaoshen *see* **Li, Tien-Yien, 97d:14089**

52B30 Arrangements of hyperplanes

Athanasiadis, Christos A. Characteristic polynomials of subspace arrangements and finite fields. (English summary) **97k:52012**
Björner, Anders (*with* Sagan, Bruce E.) Subspace arrangements of type B_n and D_n. (English summary) **97g:52028**
De Concini, Corrado (*with* Salvetti, Mario) Cohomology of Artin groups: Addendum: "The homotopy type of Artin groups" [Math. Res. Lett. **1** (1994), no. 3, 307–340; MR 95j:52026] by Salvetti. **97b:52015**
Edelman, Paul H. (*with* Reiner, Victor) Free arrangements and rhombic tilings. (English summary) **97f:52019**
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52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [see also 05B35]

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52B60 Isoperimetric problems for polytopes

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Bilinski, S. Die Familie der abgestumpften quasiregulären Polyeder. [The family of truncated quasiregular polyhedra] **97g:52037**
Bokowski, Jürgen *see* **Altshuler, Amos; et al., 97g:52036**
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Geloneze Neto, Antonio Cusp parity and generalized Riemann-Hurwitz formulas for simplicial mappings.
O'Rourke, Joseph Computational geometry column 27. (English summary) **97d:52019**

52B99 None of the above, but in this section

Köhler, A. E. Deformations, isosymmetric manifolds, and higher-dimensional form space symmetries for point ensembles (polygonal forms) under O(2) symmetry. II. Four points. (English summary) **97h:52019**
— Deformations, isosymmetric manifolds, and higher-dimensional form space symmetries for point ensembles (polygonal forms) under O(2) symmetry. III. Motifs in geometric figures and constraints in form spaces. (English summary) **97h:52020**
— Polygonal figures and their form spaces. I. The structure of isodiastemic manifolds (manifolds of equilateral polygons). (English summary) **97i:52018**

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52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

Awyong, Poh W. (*with* Scott, Paul R.) Width-diameter relations for planar convex sets with lattice point constraints. (English summary) **97b:52018**
Gardner, Richard J. (*with* Gritzmann, Peter) Discrete tomography: determination of finite sets by X-rays. (English summary) **97h:52021**
Gritzmann, Peter *see* **Gardner, Richard J., 97h:52021**
Janković, Vladimir Solution of one problem of G. Pólya. (English summary) **97i:52019**
Schnell, Uwe (*with* Segura Gomis, Salvador) Two problems concerning the area-perimeter ratio of lattice-point-free regions in the plane. (English summary) **97e:52022**
Scott, Paul R. *see* **Awyong, Poh W., 97b:52018**
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Vassallo, Salvatore (*with* Wills, Jörg M.) Covering sets for plane lattices. (English summary) **97c:52035**
Wills, Jörg M. *see* **Vassallo, Salvatore, 97c:52035**

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52C07 Lattices and convex bodies in n dimensions [see also 11H06, 11H31, 11P21]

Agrawal, Dakshi *see* **Urbanke, Rüdiger, 97a:52028**
Bezdek, K. (*with* Hausel, T.) On the number of lattice hyperplanes which are needed to cover the lattice points of a convex body. **97a:52026**
Dumir, V. C. (*with* Hans-Gill, R. J.; Wilker, J. B.) View-obstruction and a conjecture of Schoenberg. (English summary) **97e:52023**
— (*with* Hans-Gill, R. J.; Wilker, J. B.) Contributions to a general theory of view-obstruction problems. II. (English summary) **97e:52024**
Filipescu, D. Application de la théorie des réseaux dans l'espace euclidien E_3. (English, French and Romanian summaries) [Application of lattice theory in Euclidean space E_3] **97h:52022**
Hans-Gill, R. J. *see* **Dumir, V. C.; et al., 97e:52023** *and* **97e:52024**
Hausel, T. *see* **Bezdek, K., 97a:52026**
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Quine, J. R. Jacobian of the Picard curve. (English summary) **97k:14028**
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Zong, Chuan Ming The kissing numbers of tetrahedra. (English summary) **97c:11070**

52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

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— (*with* Branická, Mária; Grešák, Pavol; Hrinko, Igor; Novotný, Pavel; Stacho, Milan) Several remarks about midpoint-free subsets. (English and Slovak summaries) **97k:52018**
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Brass, Peter Erdős distance problems in normed spaces. (English summary) **97e:52036**
— On the Erdős-diameter of sets. (English summary) **97e:52037**
Capoyleas, V. An upper bound for weak ε-nets of points on a circle. **97c:52038**
Caro, Yair On the generalized Erdős-Szekeres conjecture—a new upper bound. (English summary) **97h:52023**
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Erdős, Paul[1] Some of my recent problems in combinatorial number theory, geometry and combinatorics. (English summary) **97k:52019**
— (*with* Fishburn, Peter C.) Convex nonagons with five intervertex distances. (English summary) **97e:52026**
— (*with* Fishburn, Peter C.) Minimum planar sets with maximum equidistance counts. (English summary) **97k:52020**
— (*with* Pach, János) Are there many distances that occur few times? **97m:52036**
— *see also* **Elekes, G., 97b:52020**
Fishburn, Peter C. Distances in convex polygons. (English summary) **97k:52021**
— *see also* **Erdős, Paul[1], 97e:52026** *and* **97k:52020**
Giering, O. Zum Problem von Sylvester Punktmengen mit k-Tripeln. (English summary) [On Sylvester's problem on point sets with k-triples] **97h:52025**
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— (*with* Piepmeyer, Lothar) Three distinct distances in the plane. (English summary) **97c:52041**
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Kertész, G. Nine points on the hemisphere. **97a:52031**
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Kupitz, Yaakov On the maximal number of appearances of the minimal distance among n points in the plane. **97j:52021**
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Yang, Lu (*with* Zeng, Zhenbing) Heilbronn problem for seven points in a planar convex body. **97a:52030**
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Cantwell, Kent Edge-Ramsey theory. (English summary) **97e:05194**
Chinen, Kenji *see* **Maehara, Hiroshi, 97a:52044**
Erdős, Paul[1] Some of my favourite problems in number theory, combinatorics, and geometry. **97e:11003**
— *see also* **Mathematics of Paul Erdős, 97f:00033**
Fishburn, Peter C. Sum set cardinalities of line restricted planar sets. (English summary) **97h:11017**
(Graham, Ronald L.) *see* **Mathematics of Paul Erdős, 97f:00033**
Janković, Vladimir Solution of one problem of G. Pólya. (English summary) **97i:52019**
Maehara, Hiroshi (*with* Chinen, Kenji) An infinitesimally rigid unit-bar-framework in the plane which contains no triangle. (English summary) **97a:52044**
(Nešetřil, Jaroslav) *see* **Mathematics of Paul Erdős, 97f:00033**
Novotný, Pavel On packing of squares into a rectangle. (English summary) **97m:52038**

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52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

Bankov, Kiril Selection of a large subset of disjoint figures. **97m:52037**
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52C17 Packing and covering in n dimensions [see also 05B40, 11H31]

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Bezdek, A. A remark on the packing density in the 3-space. (English summary) **97e:52029**
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52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

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Aviram, Ira (*with* Kleman, Maurice) On some new properties of binary tilings. (English and French summaries) **97d:52029**
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Simpelaere, Dominique Multifractal of the Appolonian tiling. (English summary) **97h:58104**
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52C22 Tilings in n dimensions [see also 05B45, 51M20]

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Dekking, F. M. A self-similar tiling of Euclidean space by two shapes in two sizes. (English summary) **97j:52027**
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52C25 Rigidity and flexibility of structures [see also 70B15]

Auroux, Denis Nonsymmetric rigid polygons and the angle-side reciprocity conjecture. (English summary) **97c:52049**
Chernoff, W. W. Interwoven polygonal frames. (English summary) **97m:52044**
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52C99 None of the above, but in this section

Köhler, A. E. Deformations, isosymmetric manifolds, and higher-dimensional form space symmetries for point ensembles (polygonal forms) under O(2) symmetry. I. Two and three points. (English summary) **97b:52025**
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53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items listed otherwise than by author

Affine bibliography Affine bibliography and references. (*see* **97j:53001**)
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Geometry and topology of submanifolds Affine bibliography and references. (*see* **97j:53001**)

53–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bartnik, Robert Introduction to differential geometry. (English summary) **97e:53001**
(Cheng, Shiu Yuen) *see* **Schoen, Richard M., 97d:53001**
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Kobayashi, Shoshichi (*with* Nomizu, Katsumi) ★ Foundations of differential geometry. Vol. I. **97c:53001a**
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(Zhang, Gong Qing) *see* **Schoen, Richard M., 97d:53001**
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53–04 Explicit machine computation and programs (not the theory of computation or programming)

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53–06 Proceedings, conferences, collections, etc.

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(de Bartolomeis, Paolo) *see* **Manifolds and geometry, 97c:53005**
(Bellaïche, André) *see* **Sub-Riemannian geometry, 97f:53002**
(Berger, Marcel) *see* **Proceedings: Roundtable on Differential Geometry, 97i:53002**
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(Calabi, Eugenio) *see* **Manifolds and geometry, 97c:53005**
(Chern, Shiing Shen) *see* **Finsler geometry, 97b:53001**
(D'Atri, Joseph E.) *see* **Topics in geometry, 97a:53001**
(Dillen, Franki) *see* **Geometry and topology of submanifolds, 97i:53001** *and* **97j:53001**
(Gindikin, Simon G.) *see* **Topics in geometry, 97a:53001**
(Grove, Karsten) *see* **Comparison geometry, 97m:53001**
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(Kawaguchi, Akitsugu) *see* **Conference: Differential Geometry and its Applications, 97m:53002**
(Kolář, Ivan) *see* **Differential geometry and applications, 97c:53004**
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(Van de Woestyne, Ignace) *see* **Geometry and topology of submanifolds, 97i:53001** *and* **97j:53001**
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Anniversary:
Birth of Kawaguchi, Akitsugu ★ International Conference on Differential Geometry and its Applications. **97m:53002**
Berkeley, CA ★ Comparison geometry. **97m:53001**
Birthday:
Nomizu, Katsumi ★ Geometry and topology of submanifolds. VII. **97i:53001**
Brno ★ Differential geometry and applications. **97c:53004**
Brussels ★ Geometry and topology of submanifolds. VII. **97i:53001**
— ★ Geometry and topology of submanifolds. VIII. **97j:53001**
Bucharest ★ Proceedings of the International Workshop on Differential Geometry and its Applications. **97e:53002**
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Coimbra ★ Dia de Topologia e Geometria. [Topology and Geometry Day] **97d:53002**
Comparison geometry ★ Comparison geometry. **97m:53001**
Conference:
Differential Geometry ★ Manifolds and geometry. **97c:53005**
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Finsler Geometry ★ Finsler geometry. (English summary) **97b:53001**
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Special Year:
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(Álvarez López, Jesús A.) *see* **Analysis and geometry in foliated manifolds, 97d:58003**
(Chow, Bennett) *see* **Elliptic and parabolic methods in geometry, 97f:58004**
(Cranny, Timothy R.) *see* **Workshop: Analysis and Geometry, 97a:00040**
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(Escobar, José F.) *see* **Proceedings: School on Differential Geometry, Partial Differential Equations and Numerical Analysis, 97h:00013**
(Gromov, Mikhael L.) *see* **Geometries in interaction, 97g:00025**
(Gulliver, Robert) *see* **Elliptic and parabolic methods in geometry, 97f:58004**
(Hildebrandt, Stefan) *see* **Geometric analysis and the calculus of variations, 97k:00023**
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(Jost, Jürgen) *see* **Geometric analysis and the calculus of variations, 97k:00023**
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53Axx Classical differential geometry

53A04 Curves in Euclidean space

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Görg, A. Parametric representation of embankments. (English summary) **97e:53004**
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Hisakado, Masato (*with* Wadati, Miki) Moving discrete curve and geometric phase. (English summary) **97g:53001**
Ishimura, Naoyuki Curvature evolution of plane curves with prescribed opening angles. (Japanese) (*see* **97j:00023**)
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Kobal, Damjan Comparison of lengths of parallel paths. (Slovenian. English and Slovenian summaries)
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Robertson, Stewart Inflation of plane curves. (English summary) **97j:53002**
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Tian, Li Gen Second-order immersions of S^1 in $S^1 \times \mathbf{R}$. (Chinese)
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Wegner, Bernd On the evolutes of piecewise linear curves in the plane. (English and Serbo-Croatian summaries) **97b:53003**
Wei, Yue Chun Some properties of generalized offset curves. (Chinese. English and Chinese summaries) **97e:53007**
Yamazaki, Takayoshi (*with* Yoshikawa, Atsuko Yamada) Plane curves in Lie sphere geometry. (English summary) **97k:53003**
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Ramos, Eduardo (*with* Roca, Jaume) On W_3-morphisms and the geometry of plane curves. (English summary) **97j:81113**

Roca, Jaume *see* **Ramos, Eduardo, 97j:81113**

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Tsutsumi, Masayoshi The generalized curve shortening problem. (English summary) **97k:58043**

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Yilmaz, Murteza Some Darboux motion on unit dual sphere and in space. (English summary) **97b:53019**

53A05 Surfaces in Euclidean space

(Alvarez Paiva, Juan Carlos) *see* **Fokas, A. S., 97g:53003**

Azevedo Breda, Ana M. R. A note on octahedral spherical foldings. (English summary) **97f:53003**

Baikoussis, Christos (*with* Koufogiorgos, Themis) On the inner curvature of the second fundamental form of helicoidal surfaces. (English summary) **97j:53003**

Barskiĭ, I. B. Nonzero Gaussian curvature on the simplest hyperbolic surfaces. (Russian) **97j:53004**

Bobenko, A. I. (*with* Pinkall, Ulrich) Discrete isothermic surfaces. **97f:53004**

Caddeo, Renzo (*with* Piu, M. Paola; Ratto, Andrea) Rotational surfaces in H_3 with constant Gauss curvature. (Italian summary) **97e:53008**

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Gül, Türkan On the focal surfaces of the congruences generated by the instantaneous screwing axes connected with some surfaces. (English summary) **97e:53009**

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Hisakado, Masato (*with* Wadati, Miki) Integrable dynamics of discrete surfaces. (English summary) **97b:53005**

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Huang, Xuan Guo An existence theorem of rotation surface with given Gaussian curvature function in $\mathbf{R}^3$. (English summary) **97c:53008**

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Kuruoğlu, Nuri (*with* Sarioğlugil, Ayhan) On the characteristic properties of the a-pedal surfaces in the Euclidean space E^3. (English summary) **97e:53012**

Lin, Yi Mou The sine-Gordon equation and surfaces of negative curvature. (Chinese. English and Chinese summaries) **97k:53004**

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Mesmoudi, Mohammed Mostefa Correspondances géodésiques entre les surfaces euclidiennes à singularités coniques. (English and French summaries) [Geodesic correspondences between Euclidean surfaces with conical singularities] **97d:53003**

Miklyukov, Vladimir M. Some parabolicity and hyperbolicity criteria for boundary sets of surfaces. (Russian. Russian summary) **97k:53005**

Müller, Stefan (*with* Šverák, Vladimír) On surfaces of finite total curvature. (English summary) **97b:53007**

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Nitsche, Johannes C. C. Characterizations of the mean curvature and a problem of G. Cimmino. (English summary) **97c:53009**

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Robertson, Stewart (*with* Wegner, Bernd) Full and partial inflation of plane curves. **97c:53010**

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Tian, Chou A generalization of Bäcklund theorem. **97b:53009**

— An extension of Bäcklund's theorem. (Chinese) **97b:53010**

Umehara, Masaaki (*with* Yamada, Kōtarō) Deformations of Lie groups and their application to surface theory. **97a:53005**

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Vasiu, Angela (*with* Vlaic, Iuliu) Rotation surfaces. (English summary) **97b:53011**

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Baikoussis, Christos (*with* Verstraelen, Leopold) On the Gauss map of helicoidal surfaces. **97c:53026**

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Barros, Manuel (*with* Garay, Oscar J.) Euclidean submanifolds with Jacobi mean curvature vector field. (English summary) **97m:53094**

Bruce, J. W. (*with* Tari, F.) Extrema of principal curvature and symmetry. (English summary) **97c:58017**

Carroll, Robert Wayne (*with* Konopel′chenko, B. G.) Generalized Weierstrass-Enneper inducing, conformal immersions, and gravity. (English summary) **97b:81111**

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Choi, Soon Meen On the Gauss map of ruled surfaces in a 3-dimensional Minkowski space. **97b:53056**

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Görgülü, Ali (*with* Hacisalihoğlu, H. Hilmi) Surfaces which contain inclined curves as geodesics. (English summary) **97e:53005**

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Huang, Xuan Guo An existence theorem for surfaces of rotation with a given Gaussian curvature function in $\mathbf{R}^3$. (Chinese. Chinese summary) **97a:53104**

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Andrews, Ben Contraction of convex hypersurfaces by their affine normal. (English summary) **97m:58045**
Angenent, Sigurd B. *see* **Altschuler, Steven J.; et al., 97j:58029**
Baikoussis, Christos (*with* Blair, David E.; Chen, Bang-Yen; Defever, Filip) Hypersurfaces of restricted type in Minkowski space. (English summary) **97g:53065**
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Kim, Ju Seon The structure of hypersurfaces with some curvature conditions. (English summary) **97g:53069**
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Alencar, Hilário (*with* Rosenberg, Harold) Some remarks on the existence of hypersurfaces of constant mean curvature with a given boundary, or asymptotic boundary, in hyperbolic space. **97j:53007**
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Chen, Weihuan Characterization of self-conjugate minimal surfaces in $\mathbf{R}^3$. (English summary) **97i:53007**
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Dillen, Franki (*with* Van de Woestyne, Ignace; Verstraelen, Leopold; Walrave, J.) Ruled surfaces of constant mean curvature in 3-dimensional Minkowski space. **97m:53009**
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Thayer, Edward C. Higher-genus Chen-Gackstatter surfaces and the Weierstrass representation for surfaces of infinite genus. (English summary) **97a:53012**
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Fang, Yi Minimal annuli in $\mathbf{R}^3$ bounded by non-compact complete convex curves in parallel planes. (English summary) **97g:49051**
Finn, Robert Green's identities and pendent liquid drops. II. **97b:76044**
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Spruck, Joel Fully nonlinear elliptic equations and applications to geometry. **97k:35085**
Taskaraev, A. Analytic properties of conditional curvatures of convex hypersurfaces and the Dirichlet problem for the Monge-Ampère equation. (Russian) **97k:35086**
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53B99 None of the above, but in this section

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53Cxx Global differential geometry [see also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]

53C05 Connections, general theory

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Gherghe, Cătălin (*with* Nicolescu, Liviu) Champs presque F-spéciaux. (French summary) [Almost F-special fields] **97e:53065**
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53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [see also 32L07]

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Houghton, Conor J. (*with* Sutcliffe, Paul M.) Tetrahedral and cubic monopoles. (English summary) **97g:53029**
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Isobe, Takeshi Non-existence and uniqueness results for boundary value problems for Yang-Mills connections. (English summary) **97g:53031**
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Encyclopaedia of Mathematical Sciences ★ General topology. III. **97f:54001**
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Items with secondary classifications in 54–02

Martin, Norman M. (*with* Pollard, Stephen) ★ Closure spaces and logic. (English summary) **97m:03022**
Pollard, Stephen *see* **Martin, Norman M.**, **97m:03022**

54–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 54–03

Ciesielski, Krzysztof[1] (*with* Pogoda, Zdzisław) The beginning of Polish topology. **97j:01047**
Dahan-Dalmedico, Amy Le difficile héritage de Henri Poincaré en systèmes dynamiques. (French summary) [The difficult legacy of Henri Poincaré in dynamical systems] **97c:01024**
(Eilenberg, Samuel) *see* **Hurewicz, Witold**, **97m:01105**
Engelking, Ryszard (*with* Pol, Roman) Hurewicz's contributions to dimension theory. — *see also* **Hurewicz, Witold**, **97m:01105**
(Fadell, Edward) *see* **Hurewicz, Witold**, **97m:01105**
Hurewicz, Witold ★ Collected works of Witold Hurewicz. **97m:01105**
— *see also* **Engelking, Ryszard**
(Ivić, Aleksandar) *see* **Kurepa, Djuro R.**, **97m:01106**
(Kuperberg, Krystyna) *see* **Hurewicz, Witold**, **97m:01105**
Kurepa, Djuro R. ★ Selected papers of Đuro Kurepa. (French) **97m:01106**
(Lefschetz, Solomon) *see* **Hurewicz, Witold**, **97m:01105**
(Mamuzić, Zlatko P.) *see* **Kurepa, Djuro R.**, **97m:01106**
(Mijajlović, Žarko) *see* **Kurepa, Djuro R.**, **97m:01106**
Pogoda, Zdzisław *see* **Ciesielski, Krzysztof[1]**, **97j:01047**
Pol, Roman *see* **Engelking, Ryszard** *and* **Hurewicz, Witold**, **97m:01105**
(Todorčević, Stevo) *see* **Kurepa, Djuro R.**, **97m:01106**

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Biography:
  Kurepa, Djuro R. *see* **Kurepa, Djuro R.**, **97m:01106**
Collected Works:
  Hurewicz, Witold *see* **Hurewicz, Witold**, **97m:01105**
  Kurepa, Djuro R. *see* **Kurepa, Djuro R.**, **97m:01106**

54–06 Proceedings, conferences, collections, etc.

(Andima, Susan) *see* **Papers on general topology and applications**, **97g:54002**
(Dolecki, Szymon) *see* **Proceedings: Conference on Convergence Theory**, **97a:54001**
(Fedorchuk, V. V.) *see* **Proceedings: Colloquium on General Topology**, **97i:54003**
(Flagg, Robert C.) *see* **Papers on general topology and applications**, **97g:54002**
(Hernández, Salvador) *see* **Proceedings: Conference on Topology and its Applications**, **97k:54001**
(Itzkowitz, Gerald) *see* **Papers on general topology and applications**, **97g:54002**
(Kong, Yung) *see* **Papers on general topology and applications**, **97g:54002**
(Kopperman, Ralph D.) *see* **Papers on general topology and applications**, **97g:54002**
(van Mill, Jan) *see* **Proceedings: Conference on Topology and its Applications**, **97k:54001**
(Misra, Prabudh R.) *see* **Papers on general topology and applications**, **97g:54002**
(Nagata, J.) *see* **Proceedings: Colloquium on General Topology**, **97i:54003**
(Nogura, Tsugunori) *see* **Proceedings: Conference on Set-theoretic Topology and its Applications**, **97f:54002**
(Yakivchik, A. N.) *see* **Proceedings: Colloquium on General Topology**, **97i:54003**

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Benicassim ★ Proceedings of the First Ibero-American Conference on Topology and its Applications. **97k:54001**
Colloquium:
  General Topology ★ Proceedings of the Fourth Russian-Japanese Colloquium on General Topology. **97i:54003**
Conference:
  Convergence Theory ★ Proceedings of the International Conference on Convergence Theory. **97a:54001**
  General Topology and Applications ★ Papers on general topology and applications. **97g:54002**
  Set-theoretic Topology and its Applications ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. **97f:54002**
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Matsuyama ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. **97f:54002**
Moscow ★ Proceedings of the Fourth Russian-Japanese Colloquium on General Topology. **97i:54003**
Papers on general topology and applications ★ Papers on general topology and applications. **97g:54002**
Proceedings:
  Colloquium on General Topology ★ Proceedings of the Fourth Russian-Japanese Colloquium on General Topology. **97i:54003**
  Conference on Convergence Theory ★ Proceedings of the International Conference on Convergence Theory. **97a:54001**
  Conference on Set-theoretic Topology and its Applications ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. **97f:54002**
  Conference on Topology and its Applications ★ Proceedings of the First Ibero-American Conference on Topology and its Applications. **97k:54001**
Symposium:
  Theory of Topological Spaces and Some Related Problems ★ Isō kūkan ron to kanren suru sho mondai. (Japanese) [The theory of topological spaces and some related problems] **97k:54002**
Theory of topological spaces and some related problems ★ Isō kūkan ron to kanren suru sho mondai. (Japanese) [The theory of topological spaces and some related problems] **97k:54002**

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(Arkhangel'skiĭ, A. V.) *see* **General topology**, **97f:54001**
(Cutland, Nigel J.) *see* **Developments in nonstandard mathematics**, **97a:00043**
(Gould, G. G.) *see* **General topology**, **97f:54001**
(Neves, Vítor) *see* **Developments in nonstandard mathematics**, **97a:00043**
(Oliveira, Franco) *see* **Developments in nonstandard mathematics**, **97a:00043**
(Robinson, Abraham) *see* **Developments in nonstandard mathematics**, **97a:00043**
(Sousa-Pinto, José) *see* **Developments in nonstandard mathematics**, **97a:00043**

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54Axx Generalities

54A05 Topological spaces and generalizations (closure spaces, etc.)

Ahmad, Bashir *see* **Khan, Moizuddin; et al.**
Balachandran, Krishnan *see* **Maki, Haruo; et al.**, **97b:54001**
Costantini, Camillo (*with* Fedeli, Alessandro; Pelant, Jan) Bases, π-bases and quasi-developments. (English summary) **97h:54001**
Devi, Ramasamy *see* **Maki, Haruo; et al.**, **97b:54001**
Elez, Nebojša Equations related to the boundary operator in a topological space. (English and Serbo-Croatian summaries) **97e:54001**
Fedeli, Alessandro *see* **Costantini, Camillo; et al.**, **97h:54001**
Gnanambal, Y. On generalized preregular closed sets in topological spaces. (English summary) **97m:54001**
Gnilka, Stanisław On extended topologies. II. Compactness, quasi-metrizability, symmetry. (English summary) **97d:54001**
Kanıbir, A. (*with* Noiri, Takashi) On S-closed subspaces. **97f:54003**
Khan, Moizuddin (*with* Ahmad, Bashir; Noiri, Takashi) On S-closed subspaces. (English summary)
Li, Jin Jin (*with* Li, Zhao Wen) α-invertible spaces. (Chinese. English and Chinese summaries)
Li, Zhao Wen *see* **Li, Jin Jin**
Lowen-Colebunders, E. (*with* Sonck, G.) Classes of pretopological spaces closed under the formation of final structures. (English summary) **97d:54002**
Maki, Haruo (*with* Balachandran, Krishnan; Devi, Ramasamy) Remarks on semi-generalized closed sets and generalized semi-closed sets. (English summary) **97b:54001**
Noiri, Takashi *see* **Kanıbir, A.**, **97f:54003** *and* **Khan, Moizuddin; et al.**
Park, Sang-Ho The nth pretopological modification of convergence spaces. (English summary) **97i:54004**
Pelant, Jan *see* **Costantini, Camillo; et al.**, **97h:54001**
Plebanek, Grzegorz Erratum to: "Compact spaces that result from adequate families of sets" [Topology Appl. **65** (1995), no. 3, 257–270; MR 96k:54003]. **97e:54002**
Prokop, Frank P. Bi-neighborhood posets. (English summary) **97j:54001**
Sonck, G. *see* **Lowen-Colebunders, E.**, **97d:54002**

Items with secondary classifications in 54A05

Altindis, Hüseyin *see* **Baran, Mehmet**, **97d:18003**
Baran, Mehmet (*with* Altindis, Hüseyin) T_2-objects in topological categories. **97d:18003**
Bonsangue, Marcello M. (*with* Jacobs, Bart; Kok, Joost N.) Duality beyond sober spaces: topological spaces and observation frames. (English summary) **97f:06011**
Clementino, Maria Manuel (*with* Giuli, Eraldo; Tholen, Walter) Topology in a category: compactness. (English summary) **97k:54008**
— (*with* Tholen, Walter) Tychonoff's theorem in a category. (English summary) **97a:18002**
Császár, Ákos Riesz and Lodato reflections. I. **97j:54013a**
— Riesz and Lodato reflections. II. **97j:54013b**
— Riesz and Lodato reflections. III. **97m:54022**
Deák, J. Extending a family of merotopies in a screen space. **97k:54022**
— Extending a family of screens in a contiguity space. **97k:54023**
— Extending a family of Cauchy structures in a limit space. I. (English summary) **97e:54004**
— Extending a family of Cauchy structures in a limit space. II. (English summary) **97j:54003**
Fukutake, Takayoshi Nearly quasi semi-open sets.
Giuli, Eraldo *see* **Clementino, Maria Manuel; et al.**, **97k:54008**
Jacobs, Bart *see* **Bonsangue, Marcello M.; et al.**, **97f:06011**
Johnson, P. B. Coherent spaces constructively. (French summary) **97b:03063**
Kok, Joost N. *see* **Bonsangue, Marcello M.; et al.**, **97f:06011**
Lowen-Colebunders, E. (*with* Sonck, G.) On the largest coreflective Cartesian closed subconstruct of Prtop. (English summary) **97c:54013**
Moslehian, M. S. (*with* Tavallaii, N.) A generalization of the Kuratowski closure-complement problem. (English summary)
Negri, Sara Stone bases, alias the constructive content of Stone representation. (English summary) **97f:06023**
Schröder, Joachim Epis in the category of pairwise-T_2 spaces. (English summary) **97f:54013**
Sigstam, Inger Formal spaces and their effective presentations. (English summary) **97a:03053**
Šlapal, Josef Net spaces in categorical topology. (English summary) **97i:54019**
Smyth, M. B. Semi-metrics, closure spaces and digital topology. **97a:68177**
Sonck, G. *see* **Lowen-Colebunders, E.**, **97c:54013**
Tavallaii, N. *see* **Moslehian, M. S.**
Tholen, Walter *see* **Clementino, Maria Manuel**, **97a:18002** *and* **97k:54008**

54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

Abd El-Monsef, M. E. (*with* Kozae, A. M.; Abo Khadra, A. A.) Application on local discrete expansion. (English summary)
Abo Khadra, A. A. *see* **Abd El-Monsef, M. E.; et al.**
Andrijević, Dimitrije On b-open sets. (English summary) **97d:54003**
Brandi, Primo (*with* Ceppitelli, Rita) A new graph topology intended for functional-differential equations. (English summary) **97h:54002**
Brown, Jason I. (*with* Watson, W. Stephen) The number of complements of a topology on n points is at least 2^n (except for some special cases). (English summary) **97d:54004**
Cîmpian, Vasile The number of topologies on a finite set. (*see* **97i:00007**)
Ceppitelli, Rita *see* **Brandi, Primo**, **97h:54002**
Chen, Yixiang Extreme disconnectedness and S-closedness of topological molecular lattice. (English and Chinese summaries) **97c:54001**
Clay, Ellen Joins of Euclidean orbital topologies. (English summary)
Comfort, W. W. (*with* García-Ferreira, Salvador) Resolvability: a selective survey and some new results. (English summary) **97i:54005**
Dorsett, Charles The semi-open set generated topology and semi-compactness. (English summary)
— New characterizations of regular open sets, semi-regular sets, and extremally disconnectedness. (English summary) **97i:54006**
García-Ferreira, Salvador *see* **Comfort, W. W.**, **97i:54005**
Kozae, A. M. *see* **Abd El-Monsef, M. E.; et al.**
Liang, Ji-Hua *see* **Liu, Ying-Ming**, **97k:54003**
Liu, Ying-Ming (*with* Liang, Ji-Hua) Solutions to two problems of J. D. Lawson and M. Mislove. (English summary) **97k:54003**
McCartan, S. D. *see* **McCluskey, A. E.**, **97a:54002**; **97i:54007**; **97i:54008** *and* **97j:54002**
McCluskey, A. E. (*with* McCartan, S. D.) Minimality with respect to T_{SA} and T_{SD}. **97j:54002**
— (*with* McCartan, S. D.) Minimality with respect to Youngs' axiom. (English summary) **97a:54002**
— (*with* McCartan, S. D.) Minimal structures for T_{FA}. (English and Italian summaries) **97i:54007**
— (*with* McCartan, S. D.) A minimal sober topology is always Scott. (English summary) **97i:54008**
Shum, Kar-Ping Closure functions on the set of positive integers. (English summary) **97f:54004**
Watson, W. Stephen A completely regular space which is the T_1-complement of itself. (English summary) **97b:54002**
— *see also* **Brown, Jason I.**, **97d:54004**

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Bouziad, Ahmed (*with* Calbrix, Jean) Čech-complete spaces and the upper topology. (English summary) **97h:54033**
van Breugel, F. *see* **Bonsangue, Marcello M.; et al.**, **97m:68130**
Calbrix, Jean *see* **Bouziad, Ahmed**, **97h:54033**
Candeal, Juan Carlos (*with* Induráin Eraso, Esteban; Mehta, Ghanshyam B.) Further remarks on totally ordered representable subsets of Euclidean space. (English summary) **97d:90013**
Dorsett, Charles Semi compactness, s-closedness, and associated topologies. (English summary)
Gao, Yin-Zhu *see* **Shi, Wei-Xue; et al.**, (**97f:54002**)
Good, Chris Inducing fixed points in the Stone-Čech compactification. (English summary) **97d:54071**
Induráin Eraso, Esteban *see* **Candeal, Juan Carlos; et al.**, **97d:90013**
Jiang, Shouli (*with* Reilly, Ivan L.) On co$S$-closed and almost co$S$-closed topologies. (English summary) **97k:54017**
Liang, Ji-Hua (*with* Liu, Ying-Ming) The Isbell topology and the Scott topology on $[X \to L]$. (Chinese. Chinese summary) **97a:06016**
Liu, Ying-Ming *see* **Liang, Ji-Hua**, **97a:06016**
Mehta, Ghanshyam B. *see* **Candeal, Juan Carlos; et al.**, **97d:90013**
Miwa, Takuo *see* **Shi, Wei-Xue; et al.**, (**97f:54002**)
Reilly, Ivan L. *see* **Jiang, Shouli**, **97k:54017**
Rutten, J. J. M. M. *see* **Bonsangue, Marcello M.; et al.**, **97m:68130**
Shi, Wei-Xue (*with* Miwa, Takuo; Gao, Yin-Zhu) Any perfect GO-space with the underlying LOTS satisfying local perfectness can embed in a perfect LOTS. (English summary) (*see* **97f:54002**)
Wagner-Bojakowska, Elżbieta (*with* Wilczyński, Władysław) Approximate core-a.e. topology. (English and Polish summaries) **97g:26012**
Wilczyński, Władysław *see* **Wagner-Bojakowska, Elżbieta**, **97g:26012**

54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

André, Robert P. Compactifying a convergence space with functions. (English summary) **97e:54003**
Császár, Ákos λ-complete filter spaces. **97d:54005**
Cui, Yao (*with* Wang, Dan Hong) Kuratowski convergence of distance functions, graphs, and epigraphs. (Chinese. English and Chinese summaries)
Deák, J. Extending a family of Cauchy structures in a limit space. I. (English summary) **97e:54004**
— Extending a family of Cauchy structures in a limit space. II. (English summary) **97j:54003**
Dolecki, Szymon (*with* Pillot, Michel) Convergences topologiquement maximales et accessibilité. (English and French summaries) [Topologically maximal convergences and accessibility] **97h:54003**
— (*with* Sitou, Saliou) Sequential order of products of Fréchet topologies. (English summary) (*see* **97k:54002**)
— Convergence-theoretic approach to quotient quest. (English summary) **97g:54003**
Frič, Roman Convergence and numbers. (English summary) **97f:54005**
García-Ferreira, Salvador (*with* Kočinac, Ljubiša D.) Convergence with respect to ultrafilters: a survey. (English summary) **97m:54002**
Gudimenko, A. I. Set-valued and epi-standardizations and their connections with convergences of the same name. (Russian. Russian summary) **97m:54003**
Knaust, H. Angelic spaces with the Ramsey property. **97j:54004**
Kočinac, Ljubiša D. *see* **García-Ferreira, Salvador**, **97m:54002**
Nogura, Tsugunori (*with* Shibakov, A.) Sequential order of product of Fréchet spaces. (English summary) **97b:54003**
Pillot, Michel *see* **Dolecki, Szymon**, **97h:54003**
Prasad, Ramjee (*with* Sinha, Arjun Prasad) Convergence groups and inverse limits of convergence groups. (English summary) **97b:54004**
Predoi, Maria Generalizing nets of events. (English summary) **97j:54005**
Preuss, Gerhard Local compactness in semi-uniform convergence spaces. (English summary) **97k:54004**
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Sonntag, Yves Convergences of sequences of closed sets in a metric space and applications. (English summary) **97f:54006**
Wang, Dan Hong *see* **Cui, Yao**
Wyler, Oswald Convergence axioms for topology. (English summary) **97j:54006**

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Artico, Giuliano (*with* Marconi, Umberto) Hausdorff topology and uniform convergence topology in spaces of continuous functions. (English summary) **97a:54012**
Beattie, Ronald Continuous convergence and functional analysis. (English summary) **97c:46092**
Bella, Angelo (*with* Simon, Petr; Tironi, Gino) Further results on the product of chain-net spaces. (English summary) **97a:54010**
Bonanzinga, M. The general concept of cleavability of mappings. (English summary) **97a:54015**
Brandi, Primo (*with* Ceppitelli, Rita) A new graph topology intended for functional-differential equations. (English summary) **97h:54002**
Ceppitelli, Rita *see* **Brandi, Primo**, **97h:54002**
Chen, Shui-Li *see* **Zhou, Wu Neng**
Di Maio, Giuseppe (*with* Holà, Lubica) A hypertopology determined by the family of totally bounded sets is the infimum of upper Wijsman topologies. (English summary) **97m:54019**
Dolecki, Szymon (*with* Sitou, Saliou) Sur l'ordre séquentiel du produit de deux topologies de Fréchet. (English and French summaries) [Sequential order of the products of some Fréchet topologies] **97a:54026**
Dorsett, Charles The semi-open set generated topology and semi-compactness. (English summary)

Gähler, S. (*with* Matel-Kaminska, D.) Convergence structures in numerical analysis. (English summary) **97b:54025**
García-Ferreira, Salvador Quasi M-compact spaces. **97b:54033**
Holà, Lubica *see* **Di Maio, Giuseppe, 97m:54019**
Kent, D. C. *see* **Richardson, Gary D., 97j:54031**
Kopperman, Ralph D. (*with* Mislove, Michael W.; Morris, Sidney A.; Nickolas, Peter; Pestov, V. G.; Svetlichnyĭ, S. A.) Limit laws for wide varieties of topological groups. (English summary) **97f:22001**
Lowen-Colebunders, E. (*with* Sonck, G.) Classes of pretopological spaces closed under the formation of final structures. (English summary) **97d:54002**
Marciszewski, Witold On universal Borel and projective filters. (English summary) **97h:04002**
Marconi, Umberto *see* **Artico, Giuliano, 97a:54012**
Matel-Kaminska, D. *see* **Gähler, S., 97b:54025**
Miller, Arnold W. Souslin's hypothesis and convergence in category. **97g:28004**
Mislove, Michael W. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Morris, Sidney A. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Nickolas, Peter *see* **Kopperman, Ralph D.; et al., 97f:22001**
Nogura, Tsugunori Sequential order of product spaces. (Japanese) **97a:54027**
— (*with* Shakhmatov, D. B.) When does the Fell topology on a hyperspace of closed sets coincide with the meet of the upper Kuratowski and the lower Vietoris topologies? (English summary) **97f:54011**
Park, Sang-Ho The nth pretopological modification of convergence spaces. (English summary) **97i:54004**
Pestov, V. G. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Pochciał, Jan Remarks on convergence linear spaces. (English and Italian summaries) **97m:46007**
Poppe, Harry A theorem on summable families in normed groups. (English summary) **97h:46019**
Prokaj, Vilmos A note on equal convergence. **97g:54027**
Richardson, Gary D. (*with* Kent, D. C.) Probabilistic convergence spaces. (English summary) **97j:54031**
Richter, Günther Reflective relatives of adjunctions. (English summary) **97d:54020**
Shakhmatov, D. B. *see* **Nogura, Tsugunori, 97f:54011**
Shibakov, A. Examples of sequential topological groups under the continuum hypothesis. (English summary) **97k:54021**
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Sitou, Saliou *see* **Dolecki, Szymon, 97a:54026**
Šlapal, Josef Net spaces in categorical topology. (English summary) **97i:54019**
Sonck, G. *see* **Lowen-Colebunders, E., 97d:54002**
Svetlichnyĭ, S. A. *see* **Kopperman, Ralph D.; et al., 97f:22001**
Tironi, Gino *see* **Bella, Angelo; et al., 97a:54010**
Zhou, Wu Neng (*with* Chen, Shui-Li) On L-fuzzy N-accumulation point. (English summary)

54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx, 04A30] {For ultrafilters, see 54D80.}

Arkhangel'skiĭ, A. V. A generic theorem in the theory of cardinal invariants of topological spaces. (English summary) **97b:54005**
— (*with* Yashchenko, I. V.) Relatively compact spaces and separation properties. (English summary) **97m:54004**
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Bella, Angelo (*with* Porter, Jack R.) Local cardinal functions of H-closed spaces. (English summary) **97d:54006**
— (*with* Malykhin, V. I.) Martin's axiom and completeness. (English summary) **97e:54005**
— A couple of questions concerning cardinal invariants. (English summary) **97h:54004**
— On the number of compact, H-closed and H-sets in a Hausdorff space. (English summary) **97k:54005**
Chiba, Keiko The weak covering number and θ-tightness of σ-products. (English summary)
Fedeli, Alessandro (*with* Watson, W. Stephen) On strong cellularity. (Italian summary) **97j:54007**
Fedorchuk, V. V. The Suslin property and open mappings. (Russian. Russian summary) **97c:54003**
Gryzlov, A. A. On some theorems of the theory of cardinal invariants and partition calculus. **97b:54006**
Ismail, Mohammad (*with* Szymański, Andrzej) On the metrizability number and related invariants of spaces. II. (English summary) **97f:54007**
Juhász, I. (*with* Soukup, L.; Szentmiklóssy, Z.) Forcing countable networks for spaces satisfying $R(X^\omega) = \omega$. (English summary) **97d:54007**
— (*with* Soukup, L.) How to force a countably tight, initially ω_1-compact and noncompact space? (English summary) **97c:54004**
Kočinac, Ljubiša D. Some cardinal functions on Urysohn spaces. (English summary) **97b:54007**
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Fu, Shi Bin Completeness of product spaces and characterization of sequentially compact subsets. (Chinese. English and Chinese summaries)
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— (*with* Sitou, Saliou) Sequential order of products of Fréchet topologies. (English summary) (*see* **97k:54002**)
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Dolchinov, Dolchin B. Some reflections on quasi-uniform frames. **97e:54025**
Karno, Zbigniew Special approximations of mappings into solenoidal continua. (English summary) **97j:54029**
Kim, In-Su (*with* Park, Jong-Jin; Weon, Ji-Yeon) Hyperspaces of inverse limits spaces. **97i:54014**
Park, Jong-Jin *see* **Kim, In-Su; et al., 97i:54014**
Rubin, Leonard R. Extendable irreducible representations of compacta. (English summary) **97e:54032**
Strekolovskaya, N. S. On functionally compact spaces. (Russian. Russian summary) **97m:54044**
Weon, Ji-Yeon *see* **Kim, In-Su; et al., 97i:54014**

54B40 Presheaves and sheaves [see also 18F20]

Items with secondary classifications in 54B40

Duverman, Robert J. (*with* Snyder, D. F.) On proper surjections with locally trivial Leray sheaves. (English summary) **97e:57026**

Mac Lane, Saunders (*with* Moerdijk, Ieke) Topos theory. **97j:18005**
Moerdijk, Ieke *see* **Mac Lane, Saunders, 97j:18005**
Snyder, D. F. *see* **Daverman, Robert J., 97c:57026**
Vechtomov, E. M. Rings and sheaves. **97d:46093**

54B99 None of the above, but in this section

Heckmann, Reinhold Spaces of valuations. (English summary) **97i:54021**
Moslehian, M. S. (*with* Tavallaii, N.) A generalization of the Kuratowski closure-complement problem. (English summary)
Tavallaii, N. *see* **Moslehian, M. S.**

54Cxx Maps and general types of spaces defined by maps

54C05 Continuous maps

Bonanzinga, M. The general concept of cleavability of mappings. (English summary) **97a:54015**
Deng, Zi Ke Extensions of continuous mappings. III. (Chinese. English and Chinese summaries)
Dontchev, Julian (*with* Ganster, Maximilian) More on mild continuity. (English and Italian summaries) **97k:54010**
Flak, Katarzyna (*with* Pawlak, Ryszard Jerzy; Świątek, Bożena) On some method for improving continuity, quasi-continuity and the Darboux property. (English summary) **97e:54012**
Ganster, Maximilian *see* **Dontchev, Julian, 97k:54010**
Garg, G. L. (*with* Goel, Asha) Conditions implying continuity and perfectness of maps. **97f:54015**
Gibson, Richard G. Concerning a characterization of continuity.
Goel, Asha *see* **Garg, G. L., 97f:54015**
Grudziński, W. (*with* Koszela, B.; Świątkowski, Tadeusz; Wilczyński, Władysław) Classes of continuous real functions. II. (English summary) **97d:54024**
Isaacs, Rafael (*with* Sabogal, Sonia) Folds and glueings of the line and the plane. (Spanish) **97b:54016**
Kirk, W. A. Continuous mappings in compact hyperconvex metric spaces. (English summary) **97i:54022**
Koszela, B. *see* **Grudziński, W.; et al., 97d:54024**
Krasinkiewicz, Józef On mappings with hereditarily indecomposable fibers. (English summary) **97g:54016**
— On approximation of mappings into 1-manifolds. (English summary) **97k:54011**
Krzempek, Jerzy On decomposition of projections of finite order. **97c:54014**
Nordo, G. On product of $\mathscr{P}$-functions. (English and Italian summaries) **97m:54025**
Pawlak, Ryszard Jerzy *see* **Flak, Katarzyna; et al., 97e:54012**
Piotrowski, Zbigniew (*with* Wingler, Eric J.) On Sierpiński's theorem on the determination of separately continuous functions. (English summary) **97m:54026**
Sabogal, Sonia *see* **Isaacs, Rafael, 97b:54016**
Sichler, J. (*with* Trnková, Věra) On elementary equivalence and isomorphisms of clone segments. (English summary) **97i:54023**
Świątek, Bożena *see* **Flak, Katarzyna; et al., 97e:54012**
Świątkowski, Tadeusz *see* **Grudziński, W.; et al., 97d:54024**
Trnková, Věra Simultaneous problems of clone segments in Top and in Unif. (English summary) **97e:54013**
— Clone segments in Top and in Unif. (English summary) **97g:54017**
— *see also* **Sichler, J., 97i:54023**
Wilczyński, Władysław *see* **Grudziński, W.; et al., 97d:54024**
Wingler, Eric J. *see* **Piotrowski, Zbigniew, 97m:54026**

Items with secondary classifications in 54C05

Basit, Bolis (*with* Günzler, Hans) Abstract functions with continuous differences and Namioka spaces. (English summary) **97f:39001**
Charatonik, Włodzimierz J. Continuous images of AR-spaces. (English summary) **97g:54029**
Comfort, W. W. (*with* García-Ferreira, Salvador) Resolvability: a selective survey and some new results. (English summary) **97i:54005**
Dai, Xiong Ping An equivalent condition for Anosov maps with zero entropies. **97f:54026**
Ebrahimi-Vishki, H. R. Joint continuity of separately continuous mappings on topological groups. (English summary) **97a:54039**
Frantz, Marc Controlling Tietze-Urysohn extensions. (English summary) **97b:54019**
García-Ferreira, Salvador (*with* Kočinac, Ljubiša D.) Convergence with respect to ultrafilters: a survey. (English summary) **97m:54002**
— *see also* **Comfort, W. W., 97i:54005**
Garg, G. L. (*with* Goel, Asha) On maps: continuous, closed, perfect, and with closed graph. (English summary)
Gauld, David (*with* Greenwood, Sina; Piotrowski, Zbigniew) On Volterra spaces. II. (English summary) **97m:54052**
Goel, Asha *see* **Garg, G. L.**
Greenwood, Sina *see* **Gauld, David; et al., 97m:54052**
Günzler, Hans *see* **Basit, Bolis, 97f:39001**
Hosokawa, Hiroshi Arcwise connectedness of the complement in a hyperspace. (English summary) **97m:54020**
Hušek, Miroslav (*with* Watson, W. Stephen) Universal metric spaces and factorization theorems. (English summary) **97m:54023**
Khan, Liaqat Ali[1] *see* **Morishita, Kazuhiko, 97j:54017**
Kočinac, Ljubiša D. *see* **García-Ferreira, Salvador, 97m:54002**
Landers, D. (*with* Rogge, L.) Discontinuous extension of continuous real-valued functions. **97j:54016**
Lupiañez, Francisco Gallego A survey on Σ-products. (English summary)
Morishita, Kazuhiko (*with* Khan, Liaqat Ali[1]) The minimum support for a functional on $C^b(X)$. (English summary) **97j:54017**
Piotrowski, Zbigniew *see* **Gauld, David; et al., 97m:54052**
Render, Hermann Continuous maps with special properties. **97f:54054**
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Watson, W. Stephen *see* **Hušek, Miroslav, 97m:54023**

54C08 Weak and generalized continuity

Ahmad, Bashir *see* **Noiri, Takashi; et al., 97h:54013**
Beceren, Y. (*with* Yüksel, S.; Hatir, E.) On almost strongly θ-semi-continuous functions. (English summary)
Borsík, Ján Products of simply continuous and quasicontinuous functions. (English summary) **97b:54017**
— Local characterization of functions with closed graphs.
— Maxima and minima of simply continuous and quasicontinuous functions. (English summary) **97m:54027**
Caldas Cueva, Miguel Semi-generalized continuous maps in topological spaces. **97a:54016**
Chauhan, S. S. *see* **Dube, K. K.**
Dontchev, Julian (*with* Przemski, M.) On the various decompositions of continuous and some weakly continuous functions. **97e:54014**
Dube, K. K. (*with* Panwar, O. S.; Tiwari, R. K.) K-continuous mappings.
— (*with* Chauhan, S. S.) On θ-semi-continuous mappings.
Ewert, Janina Quasicontinuity and related properties of functions and multivalued maps. (English summary) **97f:54016**
Ferrer-Llopis, Jesús (*with* Gregori, V.; Reilly, Ivan L.) Some properties of semi-continuous functions and quasi-uniform spaces. (English summary) **97i:54024**
Gregori, V. *see* **Ferrer-Llopis, Jesús; et al., 97i:54024**
Ha, Hoe Young *see* **Park, Jin Han**
Hatir, E. (*with* Noiri, Takashi; Yüksel, S.) A decomposition of continuity. **97g:54018**
— *see also* **Beceren, Y.; et al.**
Khan, Moizuddin *see* **Noiri, Takashi; et al., 97h:54013**
Kovačević, Ilija Some properties of M_N subsets and almost closed mappings. (English summary) **97f:54017**
Latif, Raja Mohammad On semi-weakly semi-continuous mappings. (English summary)
Nasef, A. A. (*with* Noiri, Takashi) Some weak forms of almost continuity.
Noiri, Takashi (*with* Ahmad, Bashir; Khan, Moizuddin) Almost s-continuous functions. (English summary) **97h:54013**
— *see also* **Hatir, E.; et al., 97g:54018**; **Popa, Valeriu, 97g:54019** *and* **Nasef, A. A.**
Panwar, O. S. *see* **Dube, K. K.; et al.**
Park, Jin Han (*with* Ha, Hoe Young) A note on weakly quasi-continuous functions. (English summary)
Pawlak, Ryszard Jerzy On c-homotopies. (English summary) **97f:54018**
Piotrowski, Zbigniew On the theorems of Y. Mibu and G. Debs on separate continuity. (English summary) **97d:54025**
Popa, Valeriu (*with* Noiri, Takashi) Weakly β-continuous functions. (English summary) **97g:54019**
Przemski, M. *see* **Dontchev, Julian, 97e:54014**
Reilly, Ivan L. *see* **Ferrer-Llopis, Jesús; et al., 97i:54024**
Rosen, Harvey On characterizing extendable connectivity functions by associated sets. (English summary) **97m:54028**
Tiwari, R. K. *see* **Dube, K. K.; et al.**
Wang, Bao Ling *see* **Xin, Yu Mei**
Whittington, Keith The graph spaces of connectivity maps. (English summary) **97h:54014**
Xin, Yu Mei (*with* Wang, Bao Ling) Some kinds of mappings of topological spaces. (Chinese. English and Chinese summaries)
Yüksel, S. *see* **Hatir, E.; et al., 97g:54018** *and* **Beceren, Y.; et al.**

Items with secondary classifications in 54C08

Ahmad, Bashir *see* **Khan, Moizuddin; et al., 97h:54023**
Balachandran, Krishnan *see* **Maki, Haruo; et al., 97b:54001**
Brandi, Primo (*with* Salvadori, Anna) A characterization of lower semicontinuity. **97m:26003**
Chandel, Raghvendra Singh *see* **Ganguly, Ashok; et al.**
Charatonik, Janusz J. Local connectedness and connected open functions. (English summary) **97i:54026**
Cheng, Cao-Zong (*with* Lin, Bor-Luh) A two functions, noncompact topological minimax theorem. **97k:49012**
Choi, Jae Rong On fuzzy weakly semi-continuity. (English summary)
Devi, Ramasamy *see* **Maki, Haruo; et al., 97b:54001**
Dontchev, Julian (*with* Ganster, Maximilian) More on mild continuity. (English and Italian summaries) **97k:54010**
Ebrahimi-Vishki, H. R. Joint continuity of separately continuous mappings on topological groups. (English summary) **97a:54039**
Fang, Jin Ming Lattice valued completely topological generated spaces. (English summary)
Ganguly, Ashok (*with* Tapi, U. D.; Chandel, Raghvendra Singh) On continuous and almost continuous multifunctions. (English summary)
Ganster, Maximilian *see* **Dontchev, Julian, 97k:54010**
Grande, Zbigniew On some representations of a.e. continuous functions. (English summary) **97a:26002**
— On strong quasi-continuity of functions of two variables. (English summary) **97g:26011**
Hušek, Miroslav Sequentially continuous homomorphisms on products of topological groups. (English summary) **97f:22007**
Khan, Moizuddin (*with* Noiri, Takashi; Ahmad, Bashir) On locally s-closed spaces. (English summary) **97h:54023**
Küçük, Mahide (*with* Küçük, Yalçin) Further properties of almost continuous multifunctions defined between bitopological spaces.
Küçük, Yalçin On some characterizations of δ-continuous multifunctions. **97g:54032**
— *see also* **Küçük, Mahide**
Kupka, I. A. K. (*with* Toma, Vladimir) Measure of noncompactness in topological spaces and upper semicontinuity of multifunctions. (English summary) **97d:54033**
Lin, Bor-Luh *see* **Cheng, Cao-Zong, 97k:49012**

Maki, Haruo (*with* Balachandran, Krishnan; Devi, Ramasamy) Remarks on semi-generalized closed sets and generalized semi-closed sets. (English summary) **97b:54001**
Malešič, Jože (*with* Repovš, Dušan D.) Continuity-like properties and continuous selections. **97j:54021**
Maliszewski, Aleksander On theorems of Pu & Pu and Grande. (English summary) **97c:26006**
Natkaniec, Tomasz Extendability and almost continuity. (English summary) **97g:26002**
Noiri, Takashi *see* **Khan, Moizuddin; et al., 97h:54023** *and* **Popa, Valeriu**
Philip, Annamma *see* **Thakur, S. S.**
Popa, Valeriu (*with* Noiri, Takashi) On upper and lower almost α-continuous multifunctions.
Repovš, Dušan D. *see* **Malešič, Jože, 97j:54021**
Rosen, Harvey Every real function is the sum of two extendable connectivity functions. (English summary) **97d:26003**
Salvadori, Anna *see* **Brandi, Primo, 97m:26003**
Seino, Tatsuo *see* **Tanaka, Tamaki, 97f:54025**
Tanaka, Tamaki (*with* Seino, Tatsuo) On a theoretically conformable duality for semicontinuity of set-valued mappings. (English summary) **97f:54025**
Tapi, U. D. *see* **Ganguly, Ashok; et al.**
Thakur, S. S. (*with* Verma, Priti) Quasi-semiprecontinuity in bitopological spaces.
— (*with* Philip, Annamma) Pairwise fuzzy pre-feebly open mappings. (English summary)
Toma, Vladimir *see* **Kupka, I. A. K., 97d:54033**
Verma, Priti *see* **Thakur, S. S.**

54C10 Special maps on topological spaces (open, closed, perfect, etc.)

Abd El-Monsef, M. E. *see* **Mahmoud, R. A.; et al., 97c:54018**
Baker, Crump W. On preserving g-closed sets. (English summary) **97d:54026**
Caldas Cueva, Miguel Further results on generalized open mappings in topological spaces.
Charatonik, Janusz J. Mappings related to confluence. (English summary) **97f:54019**
Chen, Xiang Dong[1] Stably closed frame homomorphisms. (French summary) **97g:54020**
Garg, G. L. (*with* Goel, Asha) Convergence and perfect maps in metric spaces. (English summary) **97c:54015**
— (*with* Goel, Asha) On maps: continuous, closed, perfect, and with closed graph. (English summary)
Goel, Asha *see* **Garg, G. L., 97c:54015**
Heath, Jo W. Each locally one-to-one map from a continuum onto a tree-like continuum is a homeomorphism. (English summary) **97c:54016**
— A non-treelike continuum that is not the 2-to-1 image of any continuum. (English summary) **97c:54017**
Jiang, Shouli A note on Lašnev space. (English summary) **97m:54029**
Karno, Zbigniew On a duality between membranes and separators. (English summary) **97f:54020**
Kim, Chang-Il Minimal covers and filter spaces. (English summary) **97g:54021**
Lazarevic, Zorana Shrinking in perfect preimages of shrinking spaces. (English summary) **97h:54015**
Li, Yong Ming Weak locale quotient morphisms and locally connected frames. (English summary) **97d:54027**
Li, Zhao Wen On K-mappings. (Chinese. English and Chinese summaries) **97m:54030**
Lin, Shou Sequence-covering s-mappings. (Chinese. English and Chinese summaries)
Mahmoud, R. A. (*with* Abd El-Monsef, M. E.; Nasef, A. A.) Some forms of strongly μ-functions, $\mu \in \{\alpha$-irresolute, open, closed$\}$. (English summary) **97c:54018**
Michael, Ernest A. A note on bi-quotient and tri-quotient maps. (English summary) **97g:54022**
— Partition-complete spaces and their preservation by tri-quotient and related maps. (English summary) **97h:54016**
Miklos, S. The existence of proper local homeomorphisms on certain continua. (English summary) **97g:54023**
Nasef, A. A. *see* **Mahmoud, R. A.; et al., 97c:54018**
Nordo, G. A note on perfectification of mappings. (English summary) **97b:54018**
Tkachuk, V. V. A glance at compact spaces which map "nicely" onto the metrizable ones. (English summary) **97a:54017**

Items with secondary classifications in 54C10

Banaschewski, B. (*with* Pultr, A.) Booleanization of uniform frames. (English summary) **97d:06022**
Bouziad, Ahmed (*with* Calbrix, Jean) Čech-complete spaces and the upper topology. (English summary) **97h:54033**
Calbrix, Jean *see* **Bouziad, Ahmed, 97h:54033**
Charatonik, Janusz J. Homeomorphisms of universal dendrites. (English summary) **97d:54056**
— Local connectedness and connected open functions. (English summary) **97i:54026**
— Problems on generalized homogeneity of some continua. (English summary) **97a:54033**
Cho, Sung Ki *see* **Kong, Jae Eung, 97c:57023**
Çiçek, Mustafa On the invariance of Baire spaces under the various types of mappings. (English summary) **97f:54037**
Dai, Xiong Ping An equivalent condition for Anosov maps with zero entropies. **97f:54026**
De Blasi, Francesco S. (*with* Myjak, Józef) Some typical properties of compact mappings. (English summary) **97i:47115**
Dębski, W. (*with* Heath, Jo W.; Mioduszewski, J.) Exactly two-to-one maps from continua onto arc-continua. (English summary) **97g:54048**
Dontchev, Julian (*with* Ganster, Maximilian) More on mild continuity. (English and Italian summaries) **97k:54010**
Eckertson, Frederick W. Sums, products, and mappings of weakly pseudocompact spaces. (English summary) **97h:54021**
Fedorchuk, V. V. The Suslin property and open mappings. (Russian. Russian summary) **97c:54003**
Feng, Ding (*with* Wang, Yan Geng) Remarks on the box product of countably many spaces. (English and Chinese summaries)
Foged, L. Point-countable bases and k-networks. (English summary) **97b:54036**
Ganster, Maximilian *see* **Dontchev, Julian, 97k:54010**
Heath, Jo W. (*with* Hilton, A. J. W.) At most k-to-1 mappings between graphs. II. (English summary) **97c:05127**
— *see also* **Dębski, W.; et al., 97g:54048**
Hilton, A. J. W. *see* **Heath, Jo W., 97c:05127**
Kombarov, A. P. On expandable discrete collections. (English summary) **97d:54011**
Kong, Jae Eung (*with* Cho, Sung Ki) Extension of some results known for cell-like maps in infinite-dimensional topology to results for closed UV^∞-maps. (Korean summary) **97c:57023**
Kovačević, Ilija Some properties of M_N subsets and almost closed mappings. (English summary) **97f:54017**
Künzi, Hans-Peter A. (*with* Pasynkov, B. A.) Tychonoff compactifications and R-completions of mappings and rings of continuous functions. (English summary) **97h:54025**
Lewis, Wayne Continuous collections of hereditarily indecomposable continua. (English summary) **97i:54016**
Lin, Shou A note on the Michael-Nagami problem. (English summary) **97i:54035**
— On the quotient images of normal metric spaces. (English summary) **97d:54052**
Marín, Josefa (*with* Romaguera, Salvador) On quasi-uniformly continuous functions and Lebesgue spaces. (English summary) **97c:54028**
Mendivil, Franklin Countable compactifications and a generalized Hahn-Mazurkiewicz type theorem. (English summary) **97f:54032**
Mioduszewski, J. *see* **Dębski, W.; et al., 97g:54048**
Myjak, Józef *see* **De Blasi, Francesco S., 97i:47115**
Nordo, G. On product of $\mathscr{P}$-functions. (English and Italian summaries) **97m:54025**
Park, Jin Han (*with* Park, Yong Beom) On sp-regular spaces. (English summary) **97j:54022**
Park, Yong Beom *see* **Park, Jin Han, 97j:54022**
Pasynkov, B. A. *see* **Künzi, Hans-Peter A., 97h:54025**
Pultr, A. (*with* Sichler, J.) Extremal prime filters and universality of some categories. (English summary) **97c:18002**
— *see also* **Banaschewski, B., 97d:06022**
Romaguera, Salvador *see* **Marín, Josefa, 97c:54028**
Sichler, J. *see* **Pultr, A., 97c:18002**
Tkachenko, M. G. (*with* Tkachuk, V. V.; Uspenskiĭ, Vladimir V.; Wilson, Richard Gordon) In quest of weaker connected topologies. (English summary) **97m:54040**
Tkachuk, V. V. *see* **Tkachenko, M. G.; et al., 97m:54040**
Uspenskiĭ, Vladimir V. *see* **Tkachenko, M. G.; et al., 97m:54040**
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Wilson, Richard Gordon *see* **Tkachenko, M. G.; et al., 97m:54040**

54C15 Retraction

Items with secondary classifications in 54C15

Cao, Jiling Answers to two questions of Papadopoulos. (English summary) **97b:54024**
El-Ghoul, M. The deformation retract of both covering space of the complex projective space and its topological folding. (English summary)
Kuyucu, Fikret *see* **Ünlü, Yusuf, 97h:54026**
Pawlak, Ryszard Jerzy On c-homotopies. (English summary) **97f:54018**
Todorčević, Stevo The functor $\sigma^2 X$. (English summary) **97e:54023**
Ünlü, Yusuf (*with* Kuyucu, Fikret) Compactifications whose remainders are zero-dimensional and retract. (English summary) **97h:54026**

54C20 Extension of maps

Borges, Carlos R. Extensions of real-valued functions. (English summary) **97g:54024**
Chu, Yu Ming (*with* Qiu, De Run) Quasi-isometric extensions of mappings of the boundary of a Jordan domain. (Chinese. English and Chinese summaries)
Frantz, Marc Controlling Tietze-Urysohn extensions. (English summary) **97b:54019**
Hattori, Yasunao (*with* Ohta, Haruto) Some remarks on the Dugundji extension theorems. (*see* **97k:54002**)
Landers, D. (*with* Rogge, L.) Discontinuous extension of continuous real-valued functions. **97j:54016**
Ohta, Haruto *see* **Hattori, Yasunao, (97k:54002)**
Qiu, De Run *see* **Chu, Yu Ming**
Rogge, L. *see* **Landers, D., 97j:54016**
Stares, Ian S. Monotone normality and extension of functions. (English summary) **97b:54020**
— (*with* Vaughan, Jerry E.) The Dugundji extension property can fail in ω_μ-metrizable spaces. (English summary) **97d:54028**
Vaughan, Jerry E. *see* **Stares, Ian S., 97d:54028**

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Brandi, Primo (*with* Ceppitelli, Rita) A new graph topology. Connections with the compact open topology. (English summary) **97b:54023**
Ceppitelli, Rita *see* **Brandi, Primo, 97b:54023**
Collins, P. J. Monotone normality. (English summary) **97g:54039**
Good, Chris Inducing fixed points in the Stone-Čech compactification. (English summary) **97d:54071**
Künzi, Hans-Peter A. (*with* Pasynkov, B. A.) Tychonoff compactifications and R-completions of mappings and rings of continuous functions. (English summary) **97h:54025**
Lee, Yng-Ing (*with* Wang, Ai Nung; Wu, Der Chyi) On a theorem of Radó. **97e:58056**
Ohta, Haruto Rectangular products with a paracompact M factor. (Japanese) **97b:54012**
Pasynkov, B. A. *see* **Künzi, Hans-Peter A., 97h:54025**
Triebel, Hans (*with* Winkelvoß, Heike) Intrinsic atomic characterizations of function spaces on domains. **97b:46048**
Wang, Ai Nung *see* **Lee, Yng-Ing; et al., 97e:58056**

Winkelvoß, Heike *see* **Triebel, Hans, 97b:46048**
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54C25 Embedding

Choban, M. M. (*with* Nedev, St.) Strong P-embeddings.
Nedev, St. *see* **Choban, M. M.**
Srivastava, Kavita z-embedding and fibered product. (English summary) **97m:54031**

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Ageev, S. M. On a problem of Zambakhidze and Smirnov. (Russian. Russian summary) **97b:54046**
Karaivanov, Borislav On the commutability between hyperspaces and subspaces. (English summary) **97a:54014**
Levin, Michael A. (*with* Pol, Roman) A metric condition which implies dimension ≤ 1. (English summary) **97e:54033**
Lupiañez, Francisco Gallego A survey on Σ-products. (English summary)
Ngimbi, E. N. Canonical embedding of function spaces into the topological bidual of $C(K;E)$. (English summary) **97e:46049**
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Schröder, Joachim k-extension-coveredness and k-completions. **97c:54002**
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Tkachuk, V. V. *see* **Tkachenko, M. G.; et al., 97m:54040**
Uspenskiĭ, Vladimir V. *see* **Tkachenko, M. G.; et al., 97m:54040**
Wilson, Richard Gordon *see* **Tkachenko, M. G.; et al., 97m:54040**

54C30 Real-valued functions [see also 26–XX]

Bella, Angelo (*with* Hager, Anthony W.; Martinez, Jorge[2]; Woodward, Scott; Zhou, Hao Xuan) Specker spaces and their absolutes. I. (English summary) **97g:54025**
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Narang, T. D. Best approximation and best simultaneous approximation in ultrametric spaces. **97d:41034**
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Pouzet, Maurice (*with* Roux, Bernard Pierre) Ubiquity in category for metric spaces and transition systems. (English summary) **97h:03063**
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Popovici, Florin (*with* Stoica, Emil; Bencze, Mihály) On the isometric operators.
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Davis, James Francis (*with* Marsh, M. M.) Hereditarily weakly confluent mappings on acyclic continua. (English summary) **97a:54034**
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Kato, Hisao The nonexistence of expansive homeomorphisms of chainable continua. (English summary) **97i:54049**
Khan, Mohammad S. *see* **Cho, Yeol Je; et al., 97d:54069**
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Liu, Chuan (*with* Tanaka, Yoshio) Spaces with a star-countable k-network, and related results. (English summary) **97g:54012**
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54E45 Compact (locally compact) metric spaces

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Basu, Sanjib[1] Generalization of some theorems of Steinhaus in locally compact groups. (English summary) **97g:28020**
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Alemany, Elena (*with* Romaguera, Salvador) On half-completion and bicompletion of quasi-metric spaces. (English summary) **97m:54046**
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Charatonik, Janusz J. (*with* Villani, Alfonso) Completions of rationals. (English summary) **97d:54050**
Choban, M. M. (*with* Nedev, St.) Strong P-embeddings.
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Kato, Hisao On indecomposability and composants of chaotic continua. (English summary) **97i:54040**
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Künzi, Hans-Peter A. (*with* Romaguera, Salvador) Some remarks on Doitchinov completeness. (English summary) **97i:54030**
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54E52 Baire category, Baire spaces

Cho, Sung Ki Some results related to densely homogeneous spaces. (English summary) **97i:54036**
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Fukutake, Takayoshi Nearly quasi semi-Baire spaces. (English summary) **97m:54051**
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Tan, Kok-Keong (*with* Yu, Jian; Yuan, Xian-Zhi) Stability of production economies. (English summary) **97m:90022**
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Ambasht, Jamuna Prasad[2] Pairwise locally compact biconvergence spaces.
Bhattacharyya, Paritosh *see* **Sen, Asit Kumar, 97b:54039**
Chandra Sekhara Rao, K. Some aspects of bitopological spaces. (*see* **97a:00038**)
Chen, Xue You De Morgan algebra of bitopology. (English summary)
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Lord, Harriet Connectedness and disconnectedness in bitopology. (English summary) **97i:54037**
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Marín, Josefa (*with* Romaguera, Salvador) A bitopological view of quasi-topological groups. (English summary) **97b:54038**
Morozova, N. V. On the properties of bitopological spaces. (Russian. Russian summary)
Mršević, Mila (*with* Reilly, Ivan L.) Covering and connectedness properties of a topological space and its associated topology of α-subsets. (English summary) **97m:54053**
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Sen, Asit Kumar (*with* Bhattacharyya, Paritosh) Bitopological nowhere locally compact spaces. (English summary) **97b:54039**
Sen, Sujit Kumar (*with* Nandi, J. N.; Mukherjee, M. N.) On bitopological QHC-spaces. (English summary) **97a:54031a**
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Abd El-Monsef, M. E. (*with* Kozae, A. M.; Taher, B. M.) Compactification in bitopological spaces. (English and Arabic summaries) **97k:54018**
Abu Safiya, A. S. (*with* Fora, A. A.) Connectedness and P-continuity in bifuzzy topological spaces. (English summary)
Arenas, Francisco G. (*with* Romaguera, Salvador) Dimension of quasi-metrizable bitopological spaces. (English summary) **97d:54058**
Cao, Jiling (*with* Reilly, Ivan L.) α-continuous and α-irresolute multifunctions. (English summary) **97m:54036**
Deák, J. A bitopological view of quasi-uniform completeness. III. (English summary) **97e:54024**
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Fukutake, Takayoshi Nearly quasi semi-Baire spaces. (English summary) **97m:54051**
Kozae, A. M. *see* **Abd El-Monsef, M. E.; et al., 97k:54018**
Küçük, Mahide (*with* Küçük, Yalçin) Further properties of almost continuous multifunctions defined between bitopological spaces.
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54E70 Probabilistic metric spaces

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Al-Kassas, Yu. *see* **Fedorchuk, V. V., 97c:54029**
Baek, Jong Hwa *see* **Pathak, Hemant Kumar; et al.**
Beg, Ismat (*with* Ali, Rashid) Some properties of the Hausdorff distance in probabilistic metric spaces.
Bylka, Czesław Fixed point theorems of Matkowski on probabilistic metric spaces.
Choi, Yong-Kab *see* **Huang, Nan Jing; et al.**
Dobrowolski, Tadeusz (*with* Sakai, Katsuro) Spaces of measures on metrizable spaces. (English summary) **97f:54038**
Fedorchuk, V. V. (*with* Al-Kassas, Yu.) On cellularity of spaces of probability measures with finite supports. (English summary) **97c:54029**
Gong, Huai Yun (*with* Xiang, Shu-Huang) Weak t-functions and an open problem of Schweizer and Sklar. (Chinese. English and Chinese summaries)
— (*with* Wang, Jian Min) Generalized metric spaces. (Chinese. English and Chinese summaries)
Huang, Nan Jing (*with* Lee, Byung Soo; Choi, Yong-Kab) Some fixed point theorems for commuting and compatible mappings in non-Archimedean Menger probabilistic metric spaces.
Kang, Shin Min *see* **Pathak, Hemant Kumar; et al.**
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Liu, Ming Xue (*with* You, Zhao Yong) Isometric metrization of probabilistic metric spaces. (Chinese)
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Radul, T. N. Some representations of the pseudo-interior of the Hilbert cube in the space of probability measures. (Russian) **97b:54040**
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Zertaj, Shehla (*with* Khan, Ahmad) Results concerning probabilistic 2-metric spaces. (English summary)
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Choudhury, Binayak S. (*with* Sarkar, Debasis) Common fixed point theorems on generalisations of metric spaces. (English summary) **97m:54064**
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Gajić, Ljiljana (*with* Stojaković, Mila) On compatible mappings in fixed point theory. (English summary)
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Lee, Byung Soo (*with* Cho, Yeol Je; Jung, Jong Soo) Fixed point theorems for fuzzy mappings and applications. (English summary) **97m:54067**
— Fixed point theorems in probabilistic metric spaces. (English summary)
— *see also* **Zhang, Shi Sheng; et al., 97m:54015; 97m:54016** *and* **Jung, Jong Soo; et al.**
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54F05 Ordered topological spaces, partially ordered spaces [see also 06B30, 06F30]

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— (*with* Ingram, W. T.) Inverse limits on [0, 1] using logistic bonding maps. (English summary) **97f:54043**
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54F35 Higher-dimensional local connectedness [see also 55Mxx, 55Nxx]

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54F50 Spaces of dimension ≤ 1; curves, dendrites [see also 26A03]

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54F65 Topological characterizations of particular spaces

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54G05 Extremally disconnected spaces, F-spaces, etc.

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54G12 Scattered spaces

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54G15 Pathological spaces

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54Hxx Connections with other structures, applications

54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 04A15, 26A21, 28A05]

Banakh, T. O. (*with* Radyl, T.) On universality of countable powers of absolute retracts. (English and Ukrainian summaries) **97f:54042**
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54H10 Topological representations of algebraic systems [see also 22–XX]

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Li, Hong Xing (*with* Duan, Qin Zhi) Hypertopological groups based on powergroups. (Chinese. English and Chinese summaries)
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Zhao, Bin[1] Limit structures in the category of topological molecular lattices. (Chinese) **97j:54040**
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54H13 Topological fields, rings, etc. [see also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80.}

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55–XX Algebraic topology

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55–04 Explicit machine computation and programs (not the theory of computation or programming)

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55M05 Duality

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55M20 Fixed points and coincidences [see also 54H25]

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55M25 Degree, winding number

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55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space

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Fadell, Edward (*with* Husseini, Sufian Y.) On the growth properties of the homology of free loop spaces on configuration spaces. (English summary) **97d:58045**
Gatsinzi, J.-B. LS-category of classifying spaces. II. (English summary) **97d:55022**
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Mimura, Mamoru Homotopy theory of Lie groups. **97c:57038**
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55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

Hutt, Steve Localisation of unstable A_p-algebras and Smith theory. **97h:55003**

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Adem, Alejandro Automorphisms and cohomology of discrete groups. **97e:20072**
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van Hartskamp, M. A. (*with* Vermeer, J.) On colorings of maps. (English summary) **97i:55006**
Izydorek, Marek (*with* Marzantowicz, Wacław) Equivariant maps between cohomology spheres. **97a:55002**
Kushkulei, A. Kh. (*with* Balanov, Z. I.) ★ Geometric methods in degree theory for equivariant maps. **97m:58024**
Lannes, Jean (*with* Zarati, Saïd) Tor- et Ext-dimensions des H^*V-A-modules instables qui sont de type fini comme H^*V-modules. [Tor- and Ext-dimensions of unstable H^*V-A-modules that are finitely generated as H^*V-modules] **97h:55019**
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Idzik, Adam Borsuk-Ulam type theorems. (English summary) **97d:54032**
Pfister, Albrecht ★ Quadratic forms with applications to algebraic geometry and topology. **97c:11046**

55Nxx Homology and cohomology theories [see also 57Txx]

55N05 Čech types

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Morrow, Margaret An algebraic construction for integral Čech cohomology. (English summary) **97e:55002**
Zhang, Zeng Xi The sufficient and necessary conditions for the space X in $\mathcal{T}$-space $(X, \mathcal{T})$ to be a cohomology sphere. (English summary)

55N07 Steenrod-Sitnikov homologies

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Berikashvili, N. An algebraic model of fibration with the fiber $K(\pi, n)$-space. (English summary) **97h:55004**
Golasiński, Marek (*with* Gonçalves, Daciberg Lima) Isomorphic cohomology yields isomorphic homology. **97k:55004**
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Items with secondary classifications in 55N10

Baues, Hans-Joachim ★ Homotopy type and homology. **97f:55001**
Bryden, John (*with* Hayat-Legrand, Claude; Zieschang, Heiner; Zvengrowski, Peter) L'anneau de cohomologie d'une variété de Seifert. (English and French summaries) [The cohomology ring of a class of Seifert manifolds] **97m:57001**
Hayat-Legrand, Claude *see* **Bryden, John; et al., 97m:57001**
Schochet, Claude L. The UCT, the Milnor sequence, and a canonical decomposition of the Kasparov groups. (English summary) **97d:46088**
Zieschang, Heiner *see* **Bryden, John; et al., 97m:57001**
Zvengrowski, Peter *see* **Bryden, John; et al., 97m:57001**

55N15 K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19-XX.}

Fajstrup, Lisbeth Periodic equivariant real K-theories have rational Tate theory. (English summary) **97k:55005**
Jackowski, Stefan (*with* Oliver, Robert) Vector bundles over classifying spaces of compact Lie groups. **97h:55005**
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Yang, Hua Jian Mod p stable orders of finite CW-complexes. (English summary) **97m:55005**

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Bayen, Dilip (*with* Bruner, Robert R.) Real connective K-theory and the quaternion group. (English summary) **97d:19008**
Berkove, Ethan J. (*with* Juan-Pineda, Daniel) On the K-theory of Bianchi groups. (English summary) **97d:19003**
Bousfield, A. K. On p-adic λ-rings and the K-theory of H-spaces. **97f:55033**
Bruner, Robert R. *see* **Bayen, Dilip, 97d:19008**
Cortiñas, Guillermo (*with* Shapiro, Jack M.) Central extension of quadratic Lie algebras and its relation to dihedral homology. **97c:17032**
Giffen, Charles H. Bott periodicity and the Q-construction. (English summary) **97i:55030**
Imaoka, Mitsunori Generalized Bernoulli numbers on the KO-theory. (English summary) **97c:55016**
— The double complex transfer at the prime 2. (English summary) **97h:55015**
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Levine, Marc Correction to: "Relative Milnor K-theory" [K-Theory **6** (1992), no. 2, 113–175; MR 94b:19005]. **97i:19003**
Mitchell, Stephen A. Class groups and general linear group cohomology for a ring of algebraic integers. **97g:19005**
Schultz, Reinhard Positive scalar curvature and odd order abelian fundamental groups. (English summary) **97j:53041**
Shapiro, Jack M. *see* **Cortiñas, Guillermo, 97c:17032**
Yang, Hua Jian Stable orders of stunted lens spaces mod 2^v. (English summary) **97j:55008**
Yosimura, Zen-ichi The K_*-local type of the smash product of real projective spaces. (English summary) **97d:55018**

55N20 Generalized (extraordinary) homology and cohomology theories

Brunetti, Maurizio On the canonical $\mathrm{GL}_2(\mathbf{F}_2)$-module structure of $K(n)^*(B\mathbf{Z}/2 \times B\mathbf{Z}/2)$. (English summary) **97f:55004**
(Cole, Michael^2) *see* **Elmendorf, A. D.; et al., 97h:55006**
Devoto, Jorge A. Equivariant elliptic homology and finite groups. **97d:55008**
Elmendorf, A. D. (*with* Kříž, I.; Mandell, M. A.; May, J. P.) ★ Rings, modules, and algebras in stable homotopy theory. (English summary) **97h:55006**
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Ratliff, Thomas C. Congruence subgroups, elliptic cohomology, and the Eichler-Shimura map. (English summary) **97k:55006**
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Weiss, Michael S. (*with* Williams, Bruce) Assembly. (English summary) **97f:55005**
— (*with* Williams, Bruce) Pro-excisive functors. (English summary) **97f:55006**
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Yan, Dung Yung (*with* Luo, Zu Ping) On $\mathrm{BP}_*\Omega(\mathrm{SU}(n)/\mathrm{SO}(n))$. (English summary) **97a:55005**

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Astey, L. Stably fibre homotopy invariant classes in complex-oriented theories. **97d:55028**
Boardman, J. Michael Stable operations in generalized cohomology. **97b:55021**
— (*with* Johnson, David Copeland; Wilson, W. Stephen) Unstable operations in generalized cohomology. **97b:55022**
Brunetti, Maurizio Some remarks on the p-homotopy type of $B\Sigma_{p^2}$. **97i:55016**
Fajstrup, Lisbeth Periodic equivariant real K-theories have rational Tate theory. (English summary) **97k:55005**
Friedlander, Eric M. (*with* Lawson, H. Blaine, Jr.) Duality relating spaces of algebraic cocycles and cycles. (English summary) **97k:14007**
Imaoka, Mitsunori Generalized Bernoulli numbers on the KO-theory. (English summary) **97c:55016**
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— Operations and cooperations in $\mathrm{Im}(J)$-theory. **97f:55014**
Kochman, Stanley O. ★ Bordism, stable homotopy and Adams spectral sequences. **97i:55017**
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55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

Ando, Matthew Isogenies of formal group laws and power operations in the cohomology theories E_n. **97a:55006**
Baker, Andrew James A version of Landweber's filtration theorem for v_n-periodic Hopf algebroids. **97h:55007**
Bakuradze, M. Some relations in symplectic cobordisms. (Russian. English and Georgian summaries) **97f:55007**
Botvinnik, B. I. (*with* Gilkey, Peter B.) An analytic computation of $ko_{4r-1}(BQ_8)$. **97g:55003**
— (*with* Kochman, Stanley O.) Adams spectral sequence and higher torsion in $M\mathrm{Sp}_*$. (English summary) **97d:55009**
Buzato, F. Realization of a universal formal abelian group. (Russian) **97i:55009**
Devinatz, Ethan S. (*with* Hopkins, Michael J.) The action of the Morava stabilizer group on the Lubin-Tate moduli space of lifts. **97a:55007**
Gilkey, Peter B. *see* **Botvinnik, B. I., 97g:55003**
Greenlees, J. P. C. (*with* Sadofsky, Hal) The Tate spectrum of v_n-periodic complex oriented theories. **97d:55010**
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Jeanneret, Alain (*with* Landweber, Peter S.; Ravenel, Douglas C.) A note on the thick subcategory theorem. **97i:55010**
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Kheldouni, Abdelaziz (*with* Lamrini, Fayçal) Sur l'homologie elliptique du spectre de Milnor. (English summary) [On the elliptic homology of the Milnor spectrum] **97m:55006**
— (*with* Lamrini, Fayçal) Opération de la cohomologie elliptique définie par l'opérateur de Hecke T_2. (English and French summaries) [Elliptic cohomology operation defined by the Hecke operator T_2] **97m:55007**
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— *see also* **Gilkey, Peter B., 97b:57029**
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Gan, Danyan On the notion of cobordism for bounded manifolds. (English summary) **97i:57040**

Gilkey, Peter B. The Gromov-Lawson-Rosenberg conjecture: when do manifolds admit metrics of positive scalar curvature? (English summary) **97f:53041**
— (*with* Botvinnik, B. I.) The eta invariant and the equivariant spin bordism of spherical space form 2 groups. (English summary) **97b:57029**
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Gong, Donggeng (*with* Liu, Kefeng) Rigidity of higher elliptic genera. (English summary) **97f:58126**
Greenberg, Peter Marked homeomorphisms and the realization problem. **97i:55029**
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Kochman, Stanley O. ★ Bordism, stable homotopy and Adams spectral sequences. **97i:55017**
Kordzaya, K. Classification of formal groups of type $F(x,y)=[xR(y)+yR(x)]\Psi(xy)$. (Russian. English and Georgian summaries) **97i:14029**
Lamrini, Fayçal Interprétation umbrale de l'homologie de $\mathbf{HP}^\infty$. (English and French summaries) [Umbral interpretation of the homology of $\mathbf{HP}^\infty$] **97a:05022**
Léandre, R. Brownian motion over a Kähler manifold and elliptic genera of level N. **97a:58199**
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Matsuhisa, Tsuyoshi *see* **Masamoto, Keiko; et al., 97c:55032**
Nadiradze, R. Characteristic classes in SC^*-theory and their applications. (English and Georgian summaries) **97f:57029**
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55N25 Homology with local coefficients, equivariant cohomology

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Fujiki, Akira Kähler quotient and equivariant cohomology. **97g:32035**
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55N30 Sheaf cohomology [see also 18F20, 32C35, 32L10]

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Cencelj, Matija Jones-Petrack cohomology. **97g:55006**
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55N33 Intersection homology and cohomology

Gajer, Paweł The intersection Dold-Thom theorem. **97i:55013**
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55N35 Other homology theories

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Kheldouni, Abdelaziz (*with* Lamrini, Fayçal) Opération de la cohomologie elliptique définie par l'opérateur de Hecke T_2. (English and French summaries) [Elliptic cohomology operation defined by the Hecke operator T_2] **97m:55007**
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Lee, Dae-Woong Stable cohomotopy and (r-stage) strong homology groups.
Mouet, Catherine q-cohomologie non commutative. (English and French summaries) [Noncommutative q-cohomology] **97k:18012**
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— *see also* **Hofer, Helmut, 97f:57032**

55N45 Products and intersections

Bier, Thomas Zweischritthomologie eines Joinproduktes. [Two-step homology of a join product] **97e:55003**
Sklyarenko, E. G. On homological products. (Russian. Russian summary) **97m:55008**

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Berikashvili, N. An algebraic model of fibration with the fiber $K(\pi,n)$-space. (English summary) **97h:55004**

55N91 Equivariant homology and cohomology [see also 19L47]

Kim, Minhyong A Lefschetz trace formula for equivariant cohomology. (English summary) **97d:55012**

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Austin, David M. (*with* Braam, Peter J.) Equivariant Floer theory and gluing Donaldson polynomials. **97e:57037**
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Cencelj, Matija Jones-Petrack cohomology. **97g:55006**
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Cordes, Stefan F. (*with* Moore, Gregory W.; Ramgoolam, Sanjaye) Lectures on 2D Yang-Mills theory, equivariant cohomology and topological field theories. **97h:58032**
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Guillemin, Victor (*with* Kalkman, Jaap) The Jeffrey-Kirwan localization theorem and residue operations in equivariant cohomology. **97k:58063**
Honkasalo, Hannu Sheaves on fixed point sets and equivariant cohomology. (English summary) **97f:55009**
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— Analytic deformations of equivariant genera, universal symmetry blocks and Witten's rigidity. **97d:58183**
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Packer, Judith A. Crossed product C^*-algebras and algebraic topology. (English summary) **97g:46094**
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55N99 None of the above, but in this section

Gu, Zhiming Realization of a homomorphism of cohomology system. (English summary) **97h:55008**
Kuhn, Nicholas J. (*with* Winstead, Mark) On the torsion in the cohomology of certain mapping spaces. **97d:55013**
Winstead, Mark *see* **Kuhn, Nicholas J., 97d:55013**
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Packer, Judith A. Moore cohomology and central twisted crossed product C^*-algebras. (English summary) **97h:46114**
Segal, Graeme (*with* Selby, Alex) The cohomology of the space of magnetic monopoles. (English summary) **97a:58022**
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Singer, William M. On the minimality of Anick's resolution, with application to an algebra of cohomology operations. **97d:18015**

55Pxx Homotopy theory {For simple homotopy type, see 57Q10.}

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Cohen, F. R. Fibration and product decompositions in nonstable homotopy theory. **97d:55001**

55P05 Homotopy extension properties, cofibrations

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Kieboom, R. W. (*with* Chen, Jixiang) On FWHEP. (English summary) **97g:55007**
Meigniez, Gaël Sur le relèvement des homotopies. (English and French summaries) [On the homotopy covering property] **97g:55008**
Yoon, Yeon Soo (*with* Yu, Jung Ok) Decomposable right half smash product spaces. (English summary) **97j:55005**
Yu, Jung Ok *see* **Yoon, Yeon Soo, 97j:55005**

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Kieboom, R. W. *see* **Hardie, K. A.; et al., 97f:55013**
Miyata, Takahisa Extension type and homology. (English summary) **97h:54019**

55P10 Homotopy equivalences

Arkowitz, Martin (*with* Lupton, Gregory) On the nilpotency of subgroups of self-homotopy equivalences. **97k:55009**
Baues, Hans-Joachim (*with* Buth, Joachim) On the group of homotopy equivalences of simply connected five manifolds. **97g:55009**
— On the group of homotopy equivalences of a manifold. **97c:55008**
Biasi, C. (*with* Gonçalves, Daciberg Lima) Equivalent conditions for n-equivalences modulo a class $\mathscr{C}$ of groups. (English summary) **97m:55009**
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Heath, Philip R. On the group $\mathscr{E}(X \times Y)$ of self homotopy equivalences of a product. (English summary) **97j:55006**
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Kieboom, R. W. *see* **Hardie, K. A.; et al., 97f:55013**
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Scheerer, Hans (*with* Lee, Hee-Jin) Cancellation of local spheres with respect to wedge and Cartesian product. **97h:55009**
Shi, Yi Yun (*with* Zuo, Zai Si) Some results on homotopy self-equivalences. (Chinese)
Tsukiyama, Kouzou An example of self-homotopy equivalences. **97b:55007**
Xu, Kai Nilpotent subgroups of self equivalences of torsion spaces. (English summary) **97b:55008**
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55P15 Classification of homotopy type

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— (*with* Quintero, Antonio) On the locally finite chain algebra of a proper homotopy type. (English summary) **97c:55010**
— Non-abelian extensions and homotopies. (English summary) **97c:55011**
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Extremiana Aldana, J. Ignacio (*with* Hernández, Luis Javier; Rivas Rodríguez, M. Teresa) A closed model category for $(n-1)$-connected spaces. (English summary) **97a:55009**
Fantham, Peter (*with* James, I. M.; Mather, Michael) On the reduced product construction. (English summary) **97m:55010**
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Robinson, C. Alan (*with* Whitehouse, Sarah) The tree representation of Σ_{n+1}. (English summary) **97g:55010**
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Baues, Hans-Joachim ★ Homotopy type and homology. **97f:55001**
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Carlsson, Gunnar *see* **Bökstedt, M.; et al., 97h:19002**
Cavicchioli, Alberto (*with* Hegenbarth, Friedrich) Manifolds with highly connected universal covers. (English summary) **97d:57024**
Chigogidze, A. (*with* Kawamura, Kazuhiro; Tymchatyn, Edward D.) Nöbeling spaces and pseudo-interiors of Menger compacta. (English summary) **97c:54032**
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Garzón, Antonio R. (*with* Miranda, Jesús G.) Models for homotopy n-types in diagram categories. (English summary) **97f:55017**
— (*with* Miranda, Jesús G.) Closed model structures for algebraic models of r-connected spaces. (English summary) **97a:55022**
— (*with* Miranda, Jesús G.) Closed model structures for n-types of simplicial groups. (English summary) **97a:55023**
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Hegenbarth, Friedrich *see* **Cavicchioli, Alberto, 97d:57024**
Hilton, Peter (*with* Militello, Robert) On almost finitely generated nilpotent groups. (English summary) **97c:20051**
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Kono, Akira[1] (*with* Tsukuda, Shuichi) A remark on the homotopy type of certain gauge groups. **97k:57040**
Kôno, Susumu Stable homotopy types of Thom spaces of bundles over orbit manifolds $(S^{2m+1} \times S^r)/D_p$. **97i:55027**
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55P20 Eilenberg-Mac Lane spaces

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Baues, Hans-Joachim ★ Homotopy type and homology. **97f:55001**
Berikashvili, N. An algebraic model of fibration with the fiber $K(\pi, n)$-space. (English summary) **97h:55004**

Carrasco, P. (*with* Cegarra, A. M.) (Braided) tensor structures on homotopy groupoids and nerves of (braided) categorical groups. **97h:55012**
Cegarra, A. M. *see* **Carrasco, P., 97h:55012**
Charney, Ruth (*with* Davis, Michael Walter) Finite $K(\pi, 1)$s for Artin groups. **97a:57001**
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Karoubi, Max Formes topologiques non commutatives. (English summary) [Noncommutative topological forms] **97e:55010**
Khovanov, Mikhail Real $K(\pi, 1)$ arrangements from finite root systems. (English summary) **97d:52023**
Lannes, Jean Applications dont la source est un classifiant. [Mappings whose source is a classifying space] **97h:55021**
Lewis, L. Gaunce, Jr. Change of universe functors in equivariant stable homotopy theory. (English summary) **97d:55023**
Miyata, Takahisa Cohomological dimension of uniform spaces. (English summary) **97d:55004**
Pirashvili, T. I. Kan extension and stable homology of Eilenberg-Mac Lane spaces. **97k:55008**
Tamanoi, Hirotaka The image of the BP Thom map for Eilenberg-Mac Lane spaces. (English summary) **97f:55012**

55P25 Spanier-Whitehead duality

Daverman, Robert J. (*with* Nowak, Sławomir) Generalizations of the Alexander duality theorem. (English summary) **97m:55013**
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55P30 Eckmann-Hilton duality

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— ★ Homotopy type and homology. **97f:55001**

55P35 Loop spaces

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Dunn, Gerald Uniqueness of n-fold delooping machines. (English summary) **97m:55014**
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Foskey, Mark (*with* Slack, Michael) On the odd primary cohomology of higher projective planes. (English summary) **97c:55012**
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Halperin, Stephen (*with* Lemaire, Jean-Michel) The fibre of a cell attachment. (English summary) **97c:55013**
Hemmi, Yutaka A nonexterior Hopf algebra and loop spaces. (English summary) **97g:55011**
Hess, Kathryn (*with* Lemaire, Jean-Michel) Nice and lazy cell attachments. **97e:55006**
Langsetmo, Lisa Further structure in $K(1)_*\Omega^k S^{2n+1}$. (English summary) **97g:55012**
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Powell, Geoffrey M. L. Attaching cells to finite complexes, with an application to elliptic spaces. **97b:55010**
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Waldhausen, Friedhelm On the construction of the Kan loop group. (English summary) **97c:55014**

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Baues, Hans-Joachim (*with* Quintero, Antonio) On the locally finite chain algebra of a proper homotopy type. (English summary) **97c:55010**
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Fadell, Edward (*with* Husseini, Sufian Y.) Relative category, products and coproducts. (Italian summary) **97f:55003**
Fantham, Peter (*with* James, I. M.; Mather, Michael) On the reduced product construction. (English summary) **97m:55010**
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May, J. P. Operads, algebras and modules. **97m:18002**
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55P42 Stable homotopy theory, spectra

Benson, David John Stably splitting BG. **97e:55015**
Brunetti, Maurizio Some remarks on the p-homotopy type of $B\Sigma_{p^2}$. **97f:55016**
Elmendorf, A. D. (*with* Kříž, I.; Mandell, M. A.; May, J. P.) Modern foundations for stable homotopy theory. **97d:55016**
Imaoka, Mitsunori Generalized Bernoulli numbers on the KO-theory. (English summary) **97c:55016**
Knapp, Karlheinz Operations and cooperations in $\mathrm{Im}(J)$-theory. **97f:55014**
Kochman, Stanley O. ★ Bordism, stable homotopy and Adams spectral sequences. **97f:55017**
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Ravenel, Douglas C. The stable homotopy theory of finite complexes. **97b:55011**
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Arlettaz, Dominique A topological proof of the vanishing of the product of $K_3(\mathbf{Z})$ with $K_1(\mathbf{Z})$. (English summary) **97g:19004**
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Baker, Andrew James A version of Landweber's filtration theorem for v_n-periodic Hopf algebroids. **97h:55007**
Carlsson, Gunnar (*with* Milgram, R. James) Stable homotopy and iterated loop spaces. **97j:55007**
Cohen, F. R. On mapping class groups from a homotopy-theoretic point of view. **97f:55018**
Cohen, Ralph L. (*with* Jones, J. D. S.; Segal, Graeme) Floer's infinite-dimensional Morse theory and homotopy theory. **97b:58028**
(Cole, Michael^2) *see* **Elmendorf, A. D.; et al., 97h:55006**
Davis, Donald M. (*with* Yang, Hua Jian) Tractable formulas for v_1-periodic homotopy groups of $SU(n)$ when $n \le p^2 - p + 1$. (English summary) **97m:55018**
Devinatz, Ethan S. (*with* Hopkins, Michael J.) The action of the Morava stabilizer group on the Lubin-Tate moduli space of lifts. **97a:55007**
Dolan, James *see* **Baez, John C., 97f:18003**
Dunn, Gerald K-theory of braided tensor ring categories with higher commutativity. (English summary) **97b:18003**
Elmendorf, A. D. (*with* Kříž, I.; Mandell, M. A.; May, J. P.) ★ Rings, modules, and algebras in stable homotopy theory. (English summary) **97h:55006**
Fajstrup, Lisbeth Periodic equivariant real K-theories have rational Tate theory. (English summary) **97k:55005**
Greenlees, J. P. C. A rational splitting theorem for the universal space for almost free actions. (English summary) **97c:55021**
Hopkins, Michael J. Topological modular forms, the Witten genus, and the theorem of the cube. **97i:11043**
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Masamoto, Keiko (*with* Matsuhisa, Tsuyoshi; Shimomura, Katsumi) The homotopy groups of a spectrum whose BP_*-homology is $v_2^{-1}\mathrm{BP}_*/(2, v_1^\infty)[t_1] \otimes \Lambda(t_2)$. **97c:55032**
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Mitchell, Stephen A. Class groups and general linear group cohomology for a ring of algebraic integers. **97g:19005**
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55P45 H-spaces and duals

Anick, David (*with* Gray, Brayton) Small H spaces related to Moore spaces. **97a:55011**
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Yagita, Nobuaki Pontrjagin rings of the Morava K-theory for finite H-spaces. **97i:57046**

55P47 Infinite loop spaces

McGibbon, C. A. Infinite loop spaces and Neisendorfer localization. (English summary) **97g:55013**

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Foskey, Mark (*with* Slack, Michael) On the odd primary cohomology of higher projective planes. (English summary) **97c:55012**
Neeman, Amnon (*with* Retakh, V. S.) Extension categories and their homotopy. **97f:18008**
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55P50 Category and cocategory, etc.

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De Coster, Colette (*with* Félix, Yves) Category, growth and grade in a fibration. (English summary) **97i:55020**
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55P55 Shape theory [see also 54C56, 55Q07]

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Ivanšić, Ivan Regular movability is not a hereditary shape property. (English summary) **97f:55016**
Kawamura, Kazuhiro *see* **Chigogidze, A.; et al., 97j:55011**
Lee, Dae-Woong Stable cohomotopy and (r-stage) strong homology groups.
Mardešić, Sibe Nonvanishing derived limits in shape theory. (English summary) **97c:55019**
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Šekutkovski, Nikita Equivalence of coherent theories. (English summary) **97j:55012**
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Yokoi, Katsuya On the shape asphericity of compacta. (*see* **97k:54002**)

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55P62 Rational homotopy theory

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55P91 Equivariant homotopy theory [see also 19L47]

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55Q05 Homotopy groups, general; sets of homotopy classes

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55Q07 Shape groups

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55Q10 Stable homotopy groups

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55Q15 Whitehead products and generalizations

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55Q20 Homotopy groups of wedges, joins, and simple spaces

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55Q25 Hopf invariants

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55Q30 Homotopy groups of triads, n-ads

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55Q35 Operations in homotopy groups

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55Q40 Homotopy groups of spheres

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55Q45 Stable homotopy of spheres

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55Q50 J-morphism [see also 19L20]

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55Q52 Homotopy groups of special spaces

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55Q70 Homotopy groups of special types [see also 55N05, 55N07]

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55Q91 Equivariant homotopy groups [see also 19L47]

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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

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55R25 Sphere bundles and vector space bundles

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55Sxx Operations and obstructions

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55S37 Classification of mappings

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55S40 Sectioning fiber spaces and bundles

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55S45 Postnikov systems, k-invariants

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55S91 Equivariant operations and obstructions [see also 19L47]

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55Txx Spectral sequences [see also 18G40, 55R20]

55T05 General

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55T10 Serre spectral sequences

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55T15 Adams spectral sequences

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Yang, Hua Jian *see* **Davis, Donald M., 97m:55018**

Items with secondary classifications in 55T15

Botvinnik, B. I. (*with* Kochman, Stanley O.) Adams spectral sequence and higher torsion in MSp_*. (English summary) **97d:55009**
Bruner, Robert R. (*with* Greenlees, J. P. C.) The Bredon-Löffler conjecture. (English summary) **97b:55017**
Fang, Fuquan (*with* Klaus, Stephan) Topological classification of 4-dimensional complete intersections. **97g:57046**
Greenlees, J. P. C. *see* **Bruner, Robert R., 97b:55017**
Inoue, Hiromi (*with* Osakada, Yoshiko; Shimomura, Katsumi) On some products of β-elements in the homotopy of the Moore spectrum. II. **97g:55018**
Klaus, Stephan *see* **Fang, Fuquan, 97g:57046**
Kochman, Stanley O. ★ Bordism, stable homotopy and Adams spectral sequences. **97i:55017**
— *see also* **Botvinnik, B. I., 97d:55009**
Lin, Jinkun Self maps and Margolis killing construction in the category of spectra. (English summary) **97k:55013**
Osakada, Yoshiko *see* **Inoue, Hiromi; et al., 97g:55018**
Shimomura, Katsumi The homotopy groups of the L_2-localized Toda-Smith spectrum $V(1)$ at the prime 3. (English summary) **97h:55010**
— *see also* **Inoue, Hiromi; et al., 97g:55018**
Smirnov, V. A.[2] Description of stable homotopy groups of spheres in the language of A_∞-algebras. (Russian) **97c:55022**
Temte, Mark C. A convenient basis for a graded ring. (English summary) **97i:13001**
Yang, Hua Jian Mod p stable orders of finite CW-complexes. (English summary) **97m:55005**

55T20 Eilenberg-Moore spectral sequences [see also 57T35]

Goerss, Paul G. The homology of homotopy inverse limits. (English summary) **97e:55011**
Shipley, Brooke E. Convergence of the homology spectral sequence of a cosimplicial space. **97b:55023**

Items with secondary classifications in 55T20

Kuribayashi, Katsuhiko On the real cohomology of spaces of free loops on manifolds. (English summary) **97d:55011**
Mimura, Mamoru Homotopy theory of Lie groups. **97e:57038**

55T25 Generalized cohomology

Items with secondary classifications in 55T25

(Cole, Michael[2]) *see* **Elmendorf, A. D.; et al., 97h:55006**
Elmendorf, A. D. (*with* Kříž, I.; Mandell, M. A.; May, J. P.) ★ Rings, modules, and algebras in stable homotopy theory. (English summary) **97h:55006**
Kříž, I. *see* **Elmendorf, A. D.; et al., 97h:55006**
Mandell, M. A. *see* **Elmendorf, A. D.; et al., 97h:55006**
May, J. P. *see* **Elmendorf, A. D.; et al., 97h:55006**

55T99 None of the above, but in this section

Paranjape, K. H. Some spectral sequences for filtered complexes and applications. (English summary) **97h:55022**

Items with secondary classifications in 55T99

Arita, Yoshiko (*with* Shimomura, Katsumi) The chromatic E_1-term $H^1M_1^1$ at the prime 3. (English summary) **97d:55025**
Crabb, M. C. (*with* Knapp, Karlheinz) Applications of nonconnective Im(J)-theory. **97a:55017**
Honkasalo, Hannu Sheaves on fixed point sets and equivariant cohomology. (English summary) **97f:55009**
Kazaryan, M. È. Characteristic classes of singularity theory. **97m:57037**
Knapp, Karlheinz *see* **Crabb, M. C., 97a:55017**
Lee, Chun-Nip Farrell cohomology and centralizers of elementary abelian p-subgroups. **97b:20074**
Shimomura, Katsumi *see* **Arita, Yoshiko, 97d:55025**
Totaro, Burt Configuration spaces of algebraic varieties. (English summary) **97g:57033**

55Uxx Applied homological algebra and category theory [see also 18Gxx]

55U05 Abstract complexes

Items with secondary classifications in 55U05

Hetyei, Gábor Invariants des complexes cubiques. (English and French summaries) [Invariants of cubical complexes] **97g:52026**

55U10 Semisimplicial complexes

Baues, Hans-Joachim (*with* Tonks, Andrew) On the twisted cobar construction. **97k:55023**
Dwyer, W. G. (*with* Kan, D. M.; Stover, C. R.) The bigraded homotopy groups $\pi_{i,j}X$ of a pointed simplicial space X. (English summary) **97b:55024**
Jardine, J. F. Boolean localization, in practice. (English summary) **97h:55023**
Kan, D. M. *see* **Dwyer, W. G.; et al., 97b:55024**
Stover, C. R. *see* **Dwyer, W. G.; et al., 97b:55024**
Tonks, Andrew *see* **Baues, Hans-Joachim, 97k:55023**

Items with secondary classifications in 55U10

Carrasco, P. (*with* Cegarra, A. M.) (Braided) tensor structures on homotopy groupoids and nerves of (braided) categorical groups. **97h:55012**
Cegarra, A. M. *see* **Carrasco, P., 97h:55012**
Cordier, Jean-Marc (*with* Porter, Timothy) Homotopy coherent category theory. **97d:55032**
Ellis, Graham Spaces with finitely many non-trivial homotopy groups all of which are finite. (English summary) **97k:55010**
Fors, Göran Algebraic topological results on Stanley Reisner rings. (English summary) **97g:13040**
Jardine, J. F. Homotopy and homotopical algebra. **97i:18012**
Mouet, Catherine q-cohomologie non commutative. (English and French summaries) [Noncommutative q-cohomology] **97k:18012**
Porter, Timothy Interpretations of Yetter's notion of G-coloring: simplicial fibre bundles and non-abelian cohomology. **97h:57030**
— *see also* **Cordier, Jean-Marc, 97d:55032**
Shipley, Brooke E. Convergence of the homology spectral sequence of a cosimplicial space. **97b:55023**

55U15 Chain complexes

Items with secondary classifications in 55U15

Baues, Hans-Joachim (*with* Quintero, Antonio) On the locally finite chain algebra of a proper homotopy type. (English summary) **97c:55010**
Hess, Kathryn (*with* Lemaire, Jean-Michel) Nice and lazy cell attachments. **97e:55006**
Lemaire, Jean-Michel *see* **Hess, Kathryn, 97e:55006**
Quintero, Antonio *see* **Baues, Hans-Joachim, 97c:55010**
Stark, Christopher W. Resolutions modeled on ternary trees. (English summary) **97e:57002**
Weinstein, Alan D. The symplectic structure on moduli space. **97g:58031**
Whiteley, Walter Some matroids from discrete applied geometry. (English summary) **97h:05040**

55U20 Universal coefficient theorems, Bockstein operator

Items with secondary classifications in 55U20

Golasiński, Marek (*with* Gonçalves, Daciberg Lima) Isomorphic cohomology yields isomorphic homology. **97k:55004**
Gonçalves, Daciberg Lima *see* **Golasiński, Marek, 97k:55004**
Schochet, Claude L. The UCT, the Milnor sequence, and a canonical decomposition of the Kasparov groups. (English summary) **97d:46088**

55U25 Homology of a product, Künneth formula

Items with secondary classifications in 55U25

Goerss, Paul G. The homology of homotopy inverse limits. (English summary) **97e:55011**

55U35 Abstract homotopy theory

Cordier, Jean-Marc (*with* Porter, Timothy) Homotopy coherent category theory. **97d:55032**
Dehornoy, Patrick The structure group for the associativity identity. (English summary) **97d:55033**
Díaz Díaz, F. J. (*with* García-Calcines, J.; Rodríguez-Machín, S.) ★ Grupos en categorías de homotopía. (Spanish) [Groups in homotopy categories] **97b:55025**
Ellis, Graham (*with* Hardie, K. A.) A projective homotopy theory of crossed G-modules. (English summary) **97d:55034**
García-Calcines, J. *see* **Díaz Díaz, F. J.; et al., 97b:55025**
Garzón, Antonio R. (*with* Miranda, Jesús G.) Closed model structures for algebraic models of r-connected spaces. (English summary) **97a:55022**
— (*with* Miranda, Jesús G.) Closed model structures for n-types of simplicial groups. (English summary) **97a:55023**
— (*with* Miranda, Jesús G.) Homotopy theory for truncated weak equivalences of simplicial groups. (English summary) **97i:55034**
Hardie, K. A. *see* **Ellis, Graham, 97d:55034**
Hoffman, Jerome William Heller's axioms for homotopy theory. (French summary) **97e:55012**
Joyal, André (*with* Tierney, Myles) On the homotopy theory of sheaves of simplicial groupoids. **97g:55025**
Miranda, Jesús G. *see* **Garzón, Antonio R., 97a:55022; 97a:55023** *and* **97i:55034**
Porter, Timothy *see* **Cordier, Jean-Marc, 97d:55032**
Rodríguez-Machín, S. *see* **Díaz Díaz, F. J.; et al., 97b:55025**
Tierney, Myles *see* **Joyal, André, 97g:55025**

Items with secondary classifications in 55U35

Blanc, David New model categories from old. (English summary) **97e:18006**
Brown, Ronald Homotopy theory, and change of base for groupoids and multiple groupoids. (English summary) **97e:18007**
Cherenack, Paul Framed bicobordism. (French summary) **97d:18017a**
— (*with* Wells, Greg) Addendum to the paper "Framed bicobordism". **97d:18017b**
(Cole, Michael[2]) *see* **May, J. P., 97k:55016**
(Comezaña, G.) *see* **May, J. P., 97k:55016**
(Costenoble, S.) *see* **May, J. P., 97k:55016**
(Elmendorf, A. D.) *see* **May, J. P., 97k:55016**
Extremiana Aldana, J. Ignacio (*with* Hernández, Luis Javier; Rivas Rodríguez, M. Teresa) A closed model category for $(n-1)$-connected spaces. (English summary) **97a:55009**
Garzón, Antonio R. (*with* Miranda, Jesús G.) Models for homotopy n-types in diagram categories. (English summary) **97f:55017**
Gelfand, Sergei I. (*with* Manin, Yuriĭ Ivanovich) ★ Methods of homological algebra. (English summary) **97j:18001**
(Greenlees, J. P. C.) *see* **May, J. P., 97k:55016**
Hardie, K. A. (*with* Vermeulen, J. J. C.) A projective homotopy theory for non-additive categories. (English and Italian summaries) **97d:18018**
— (*with* Kamps, K. H.; Kieboom, R. W.) Dold type theorems in cubical homotopy theory. (English summary) **97f:55013**
Hernández, Luis Javier *see* **Extremiana Aldana, J. Ignacio; et al., 97a:55009**
Jardine, J. F. Boolean localization, in practice. (English summary) **97h:55023**
Kamps, K. H. *see* **Hardie, K. A.; et al., 97f:55013**
Kieboom, R. W. *see* **Hardie, K. A.; et al., 97f:55013**
(Lewis, L. Gaunce, Jr.) *see* **May, J. P., 97k:55016**
Manin, Yuriĭ Ivanovich *see* **Gelfand, Sergei I., 97j:18001**
Markl, Martin Distributive laws and Koszulness. (English and French summaries) **97i:18008**
May, J. P. ★ Equivariant homotopy and cohomology theory. (English summary) **97k:55016**
— Definitions: operads, algebras and modules. **97m:18001**
— Operads, algebras and modules. **97m:18002**
Miranda, Jesús G. *see* **Garzón, Antonio R., 97f:55017**
Nofech, Alexander A version of an E^2 closed model category structure. **97d:55020**
Pavelić, Petar Diagram cohomologies using categorical fibrations. (English summary) **97d:18016**
(Placenza, R. J.) *see* **May, J. P., 97k:55016**
Rivas Rodríguez, M. Teresa *see* **Extremiana Aldana, J. Ignacio; et al., 97a:55009**
(Triantafillou, G.) *see* **May, J. P., 97k:55016**
Vermeulen, J. J. C. *see* **Hardie, K. A., 97d:18018**
(Waner, S.) *see* **May, J. P., 97k:55016**
Wells, Greg *see* **Cherenack, Paul, 97d:18017b**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **May, J. P., 97k:55016**

55U40 Topological categories

Items with secondary classifications in 55U40

Baues, Hans-Joachim Non-abelian extensions and homotopies. (English summary) **97c:55011**
Chachólski, Wojciech On the functors CW_A and P_A. **97i:55023**
Pedersen, Erik K. Bounded and continuous control. **97c:18011**
Tillmann, Ulrike Discrete models for the category of Riemann surfaces. (English summary) **97k:18006**
Vainio, Reino A note on connectedness in Cartesian closed categories. (English summary) **97h:18011**

55U99 None of the above, but in this section

Tillmann, Ulrike The classifying space of the $(1+1)$-dimensional cobordism category. **97i:55035**

Items with secondary classifications in 55U99

Dwyer, W. G. (*with* Wilkerson, C. W.) Diagrams up to cohomology. **97a:55020**

Kuramoto, Yoshiyuki A sufficient condition for cohomological descent. (English summary) **97f:55011**

Takayama, Yukihide Extraction of concurrent processes from higher-dimensional automata. (English summary) (*see* **97d:68007**)

Wilkerson, C. W. *see* **Dwyer, W. G., 97a:55020**

57–XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

57–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 57–01

Bröcker, Theodor (*with* tom Dieck, Tammo) ★ Representations of compact Lie groups. (English summary) **97i:22005**
tom Dieck, Tammo *see* **Bröcker, Theodor, 97i:22005**
Fulton, William ★ Algebraic topology. (English summary) **97b:55001**

57–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 57–02

Atiyah, Michael Francis Geometry and physics: where are we going? **97j:58001**
Dodson, C. T. J. (*with* Parker, Phillip E.) ★ A user's guide to algebraic topology. (English summary) **97j:55001**
Murasugi, Kunio Knot theory (from an algebraic point of view)—classical numerical invariants of knots [translation of Sūgaku **46** (1994), no. 2, 97–111; MR 95i:57012]. (*see* **97g:00026**)
Parker, Phillip E. *see* **Dodson, C. T. J., 97j:55001**

57–03 Historical (must also be assigned at least one classification number from Section 01)

Hirsch, Morris W. The work of Stephen Smale in differential topology. **97b:57001**
Spring, David Note on the history of immersion theory. **97b:57002**

Items with secondary classifications in 57–03

Klingenberg, Wilhelm P. A. Grassmannian manifolds in geometry. (*see* **97f:01001**)
Sarkaria, K. S. A look back at Poincaré's *Analysis situs*. (French summary) **97f:01020**
Stillwell, John Poincaré, geometry and topology. (French summary) **97e:01012**
Volkert, Klaus The early history of Poincaré's conjecture. (French summary) **97e:01013**
Weibel, Charles A. The mathematical enterprises of Robert Thomason. (English summary) **97h:01020**

57–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 57–06

(Álvarez López, Jesús A.) *see* **Analysis and geometry in foliated manifolds, 97d:58003**
(Andersen, Jørgen Ellegaard) *see* **Geometry and physics, 97i:00013**
(Arnol'd, V. I.) *see* **Arnold-Gelfand mathematical seminars, 97g:00016**
(Dupont, Johan) *see* **Geometry and physics, 97i:00013**
(Gel'fand, Izrail' Moiseevich) *see* **Arnold-Gelfand mathematical seminars, 97g:00016**
(Macías-Virgós, Enrique) *see* **Analysis and geometry in foliated manifolds, 97d:58003**
(Masa, Xosé) *see* **Analysis and geometry in foliated manifolds, 97d:58003**
(Nogura, Tsugunori) *see* **Proceedings: Conference on Set-theoretic Topology and its Applications, 97f:54002**
(Pedersen, Henrik) *see* **Geometry and physics, 97i:00013**
(Retakh, V. S.) *see* **Arnold-Gelfand mathematical seminars, 97g:00016**
(Smirnov, Mikhail M.) *see* **Arnold-Gelfand mathematical seminars, 97g:00016**
(Swann, Andrew) *see* **Geometry and physics, 97i:00013**
(Thomas, C. B.) *see* **Contact and symplectic geometry, 97h:58001**

Items listed otherwise than by author

Aarhus ★ Geometry and physics. **97i:00013**
Analysis and geometry in foliated manifolds ★ Analysis and geometry in foliated manifolds. **97d:58003**
Arnold-Gelfand mathematical seminars ★ The Arnold-Gelfand mathematical seminars. **97g:00016**
Cambridge ★ Contact and symplectic geometry. **97h:58001**
Colloquium:
Differential Geometry ★ Analysis and geometry in foliated manifolds. **97d:58003**
Conference:
Set-theoretic Topology and its Applications ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. **97f:54002**
Contact and symplectic geometry ★ Contact and symplectic geometry. **97h:58001**
Geometry and physics ★ Geometry and physics. **97i:00013**
Matsuyama ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. **97f:54002**
Proceedings:
Conference on Set-theoretic Topology and its Applications ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. **97f:54002**
Santiago de Compostela ★ Analysis and geometry in foliated manifolds. **97d:58003**
Session:
Geometry and Physics ★ Geometry and physics. **97i:00013**

57Mxx Low-dimensional topology

Cavicchioli, Alberto (*with* Repovš, Dušan D.) Some open problems in geometric topology of low dimensions. (*see* **97h:00014**)
Repovš, Dušan D. *see* **Cavicchioli, Alberto, (97h:00014)**

57M05 Fundamental group, presentations, free differential calculus

Asada, Mamoru On the filtration of topological and pro-l mapping class groups of punctured Riemann surfaces. **97h:57001**
Brady, Thomas Complexes of non-positive curvature and automorphisms of the 4-punctured sphere. **97k:57001**
Bryden, John (*with* Hayat-Legrand, Claude; Zieschang, Heiner; Zvengrowski, Peter) L'anneau de cohomologie d'une variété de Seifert. (English and French summaries) [The cohomology ring of a class of Seifert manifolds] **97m:57001**
Geoghegan, Ross (*with* Mihalik, Michael L.) The fundamental group at infinity. (English summary) **97h:57002**
Hayat-Legrand, Claude *see* **Bryden, John; et al., 97m:57001**
Malfait, Wim Nielsen's theorem for model aspherical manifolds. (English summary) **97d:57001**
Mennicke, Jens L. Finite fundamental groups of three-dimensional manifolds. (Russian. Russian summary) **97e:57001**
Mihalik, Michael L. *see* **Geoghegan, Ross, 97h:57002**
Moon, Myoungho A property of surface groups. (English summary) **97j:57001**
Tan, Ser-Peow Self-intersections of curves on surfaces. (English summary) **97g:57001**
Xia, Eugene Z. Components of $\mathrm{Hom}(\pi_1, \mathrm{PGL}(2, \mathbf{R}))$. (English summary) **97j:57002**
Zieschang, Heiner *see* **Bryden, John; et al., 97m:57001**
Zvengrowski, Peter *see* **Bryden, John; et al., 97m:57001**

Items with secondary classifications in 57M05

Ahn, Soo Youp (*with* Chung, In Jae) The Reidemeister numbers on transformation groups. (English summary) **97j:57003**
Cavicchioli, Alberto (*with* Hegenbarth, Friedrich) Surgery on 3-manifolds with S^1-actions. (English summary) **97h:57033**
Chung, In Jae *see* **Ahn, Soo Youp, 97j:57003**
Cooper, Daryl (*with* Long, Darren; Reid, Alan W.) Essential closed surfaces in bounded 3-manifolds. **97m:57021**
Davey, O. (*with* Hart, Evelyn L.; Trapp, K.) Computation of Nielsen numbers for maps of closed surfaces. (English summary) **97g:55001**
Dehornoy, Patrick Weak faithfulness properties for the Burau representation. (English summary) **97b:20058**
Hart, Evelyn L. *see* **Davey, O.; et al., 97g:55001**
Hegenbarth, Friedrich *see* **Cavicchioli, Alberto, 97h:57033**
Johnson, F. E. A. Sur la commensurabilité des groupes poly-surfaces. (English and French summaries) [Infinitely many commensurability classes of poly-surface groups] **97g:20038**
Long, Darren *see* **Cooper, Daryl; et al., 97m:57021**
Mihalik, Michael L. (*with* Tschantz, Steven T.) Tame combings of groups. (English summary) **97m:20049**
Reid, Alan W. *see* **Cooper, Daryl; et al., 97m:57021**
Rong, Xiaochun The almost cyclicity of the fundamental groups of positively curved manifolds. (English summary) **97g:53045**
Savushkina, A. G. On the commutator subgroup of the braid group. (Russian. Russian summary) **97c:20058**
Silver, Daniel S. Nontorus knot groups are hyper-Hopfian. (English summary) **97a:20063**
Stallings, John R. Problems about free quotients of groups. (English summary) **97b:20028**
Thomas, C. B. 3-manifolds and PD(3)-groups. **97c:57014**
Trapp, K. *see* **Davey, O.; et al., 97g:55001**
Tschantz, Steven T. *see* **Mihalik, Michael L., 97m:20049**
Volkert, Klaus The early history of Poincaré's conjecture. (French summary) **97e:01013**
Yang, Yi-Hu On the growth of fundamental groups of nonpositive curvature manifolds. (English summary) **97i:53044**

57M07 Topological methods in group theory

Apanasov, B. N. Varieties of discrete representations of hyperbolic 3-lattices. (English summary) **97h:57003**
Balke, Ludwig (*with* Valverde, Alba) Σ-chamber systems, coloured graphs and orbifolds. (English summary) **97g:57002**
Biś, Andrzej Geometrical directions and ends of a manifold, points of accumulation of a direction of a group in the hyperbolic space H^2. (English summary) **97c:57001**
Charney, Ruth (*with* Davis, Michael Walter) Finite $K(\pi, 1)$s for Artin groups. **97a:57001**
Davis, Michael Walter *see* **Charney, Ruth, 97a:57001**
Gersten, S. M. Preservation and distortion of area in finitely presented groups. (English summary) **97k:57002**
Johnson, F. E. A. Finite coverings and surface fibrations. (English summary) **97m:57002**
Khovanov, Mikhail Doodle groups. (English summary) **97h:57004**
Labruère, Catherine Groupes de tresses généralisés et mapping class groups. (English and French summaries) [Generalized braid groups and mapping class groups] **97c:57002**
Stark, Christopher W. Resolutions modeled on ternary trees. (English summary) **97e:57002**
Takayama, Nobuki (*with* Yoshida, Masaaki) CR-geometry on the configuration space of 5 points on the projective line. **97h:57005**
Valverde, Alba *see* **Balke, Ludwig, 97g:57002**
Xia, Yining On the connectivity of posets in the mapping class group. (English summary) **97k:57003**
Yoshida, Masaaki *see* **Takayama, Nobuki, 97h:57005**

Items with secondary classifications in 57M07

Aab, Michael (*with* Rosenberger, Gerhard) Subgroup separable free products with cyclic amalgamation. (English summary) **97g:20026**
Bandieri, Paola Geometric group presentations. **97k:57005**
Bass, Hyman (*with* Otero-Espinar, Maria Victoria; Rockmore, Daniel N.; Tresser, Charles) ★ Cyclic renormalization and automorphism groups of rooted trees. **97k:58058**
Bogopol'skiĭ, O. V. (*with* Gerasimov, V. N.) Finite subgroups of hyperbolic groups. (Russian. Russian summary) **97c:20055**

Bridson, M. R. (*with* Gersten, S. M.) The optimal isoperimetric inequality for torus bundles over the circle. **97c:20047**
Burillo, José Lower bounds of isoperimetric functions for nilpotent groups. (English summary) **97b:20053**
Carlson, Jon F. The cohomology of groups. **97j:20052**
Clifford, Andrew (*with* Goldstein, R. Z.) Tesselations of S^2 and equations over torsion-free groups. (English summary) **97b:20042**
Cohen, F. R. On combinatorial group theory in homotopy. **97d:55024**
Conner, Gregory R. Central extensions of word hyperbolic groups satisfy a quadratic isoperimetric inequality. **97a:20060**
Cooper, Daryl (*with* Long, Darren) A presentation for the image of Burau(4) $\otimes Z_2$. **97m:20050**
Elek, Gábor The K-theory of Gromov's translation algebras and the amenability of discrete groups. (English summary) **97j:20034**
Fenn, Roger (*with* Rolfsen, Dale P.; Zhu, Jun[1]) Centralisers in the braid group and singular braid monoid. (English summary) **97h:20047**
Formanek, Edward Braid group representations of low degree. (English summary) **97g:20042**
Freden, Eric M. Negatively curved groups and the convergence property. II. Transitivity in negatively curved groups. (English summary) **97f:20044**
Gaboriau, Damien (*with* Levitt, Gilbert) The rank of actions on **R**-trees. (English summary) **97c:20039**
Gerasimov, V. N. *see* **Bogopol'skiĭ, O. V., 97c:20055**
Gersten, S. M. Subgroups of word hyperbolic groups in dimension 2. (English summary) **97e:20058**
— *see also* **Bridson, M. R., 97c:20047**
Goldstein, R. Z. *see* **Clifford, Andrew, 97b:20042**
Harlander, J. Closing the relation gap by direct product stabilization. (English summary) **97f:20036**
Hatcher, Allen (*with* Vogtmann, Karen) Isoperimetric inequalities for automorphism groups of free groups. (English summary) **97f:20045**
Holton, Charles (*with* Zamboni, Luca Q.) Exotic actions on trees. (English summary) **97k:20046**
Hotchkiss, Philip K. The boundary of a Busemann space. (English summary) **97m:53073**
Ihara, Yasutaka (*with* Matsumoto, Makoto) On Galois actions on profinite completions of braid groups. (English summary) **97c:12003**
Kaimanovich, Vadim A. (*with* Masur, Howard) The Poisson boundary of the mapping class group and of Teichmüller space. (English summary) **97a:32014**
Kuz'min, Yu. V. Groups of knotted compact surfaces, and central extensions. (Russian. Russian summary) **97g:20061**
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57N12 Topology of E^3 and S^3 [see also 57M40]

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57N15 Topology of E^n, n-manifolds $(4 < n < \infty)$

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Weinberger, Shmuel Nonlocally linear manifolds and orbifolds. **97g:57028**
— *see also* **Ferry, Steven C., 97d:57025**
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57N17 Topology of topological vector spaces

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Mogilski, Jerzy *see* **Dijkstra, Jan J., 97j:57024**
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— (*with* Kawamura, Kazuhiro; Tymchatyn, Edward D.) Nöbeling spaces and pseudo-interiors of Menger compacta. (English summary) **97e:54032**
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Fadell, Edward (*with* Husseini, Sufian Y.) On the growth properties of the homology of free loop spaces on configuration spaces. (English summary) **97d:58045**
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Kawamura, Kazuhiro Isomorphisms of homeomorphism groups of Menger manifolds. (English summary) **97i:57041**
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Nguyen To Nhu (*with* Sakai, Katsuro) Probability measure functors preserving infinite-dimensional spaces. **97f:28014**
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57N25 Shapes [see also 54C56, 55P55, 55Q07]

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Bestvina, Mladen Local homology properties of boundaries of groups. **97a:57022**
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57N35 Embeddings and immersions

Goryunov, V. V. Local invariants of mappings of oriented surfaces into 3-space. (English and French summaries) **97d:57026**
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Cooper, Daryl (*with* Long, Darren; Reid, Alan W.) Essential closed surfaces in bounded 3-manifolds. **97m:57021**
— (*with* Long, Darren; Reid, Alan W.) Finite foliations and similarity interval exchange maps. **97j:57032**
Edmonds, Allan L. (*with* Livingston, Charles) Embedding punctured lens spaces in four-manifolds. **97h:57049**
Livingston, Charles *see* **Edmonds, Allan L., 97h:57049**
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57N37 Isotopy and pseudo-isotopy

Kwasik, Sławomir (*with* Schultz, Reinhard) Pseudo-isotopies of 3-manifolds. **97c:57024**
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Akhmet'ev, P. M. On an isotopic and a discrete realization of mappings of an n-dimensional sphere in Euclidean space. (Russian. Russian summary) **97k:57034**
Hughes, C. Bruce Geometric topology of stratified spaces. (English summary) **97k:57026**
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57N40 Neighborhoods of submanifolds

Items with secondary classifications in 57N40

Hughes, C. Bruce Geometric topology of stratified spaces. (English summary) **97k:57026**

57N45 Flatness and tameness

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57N55 Microbundles and block bundles [see also 55R60, 57Q50]

Guo, Jingmei Lip microbundles. (English summary) **97k:57024**

57N60 Cellularity

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Moore, Teresa Engel Gromov-Hausdorff convergence to nonmanifolds. (English summary) **97a:53064**
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Sher, Richard B. A wild k-dimensional Menger compactum in $\mathbf{R}^{2k+1}$, all cell-like subsets of which are cellular. (English summary) **97a:57021**

57N65 Algebraic topology of manifolds

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57N70 Cobordism and concordance

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57N75 General position and transversality

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57N80 Stratifications

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57Pxx Generalized manifolds [see also 18F15]

57P10 Poincaré duality spaces

Bestvina, Mladen Local homology properties of boundaries of groups. **97a:57022**

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57Qxx PL-topology

57Q05 General topology of complexes

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— Geometric group presentations. **97k:57005**
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57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

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57Q12 Wall finiteness obstruction for CW-complexes

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57Q15 Triangulating manifolds

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57Q20 Cobordism

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57Q35 Embeddings and immersions

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57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

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— (*with* Saito, Masahico) A Seifert algorithm for knotted surfaces. **97f:57026**
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57Q50 Microbundles and block bundles [see also 55R60, 57N55]

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57Q55 Approximations

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57Q60 Cobordism and concordance

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57Q91 Equivariant PL-topology

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57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

57R10 Smoothing

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57R12 Smooth approximations

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57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

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57R19 Algebraic topology on manifolds

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57R20 Characteristic classes and numbers

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57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [see also 49Qxx, 58F40, 93B05]

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57R32 Classifying spaces for foliations; Gel′fand-Fuks cohomology [see also 58H10]

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57R85 Equivariant cobordism

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Hambleton, Ian (*with* Pedersen, Erik K.) Non-linear similarity revisited. **97h:57058**
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— Corrections to: "Fixed point sets of smooth group actions on disks and Euclidean spaces" [Topology **28** (1989), no. 3, 273–289; MR 90i:57032]. **97g:57053**
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Yang, Hua Jian On the fixed point sets of smooth involutions on the products of spheres. (English summary) **97d:57048**

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Chun, Dae-Shik (*with* Choi, Kyu Hyuck; Pak, Jingyal) Gottlieb groups of spherical orbit spaces and a fixed point theorem. **97g:55021**
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Gamboa, J. M. *see* **Bujalance, E.; et al., 97i:57014**
Hirose, Susumu Periodic automorphisms of surfaces and cobordism. **97k:57025**
Izydorek, Marek (*with* Marzantowicz, Wacław) Equivariant maps between cohomology spheres. **97a:55002**
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Laitinen, Erkki (*with* Raußen, M.) Homotopy types of locally linear representation forms. (English summary) **97g:57056**
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57S20 Noncompact Lie groups of transformations

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Elfving, Erik Johannes The G-homotopy type of proper locally linear G-manifolds. **97g:57055**
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57S25 Groups acting on specific manifolds

Astey, L. (*with* Micha, E.; Pastor, Guillermo) Exotic structures on quotient spaces of S^3-actions. (English summary) **97e:57046**
Douglas, Roy R. A canonical construction yielding a global view of twistor theory. (English summary) **97k:57049**
Kamishima, Yoshinobu Geometric flows on compact manifolds and global rigidity. **97f:57041**
Laitinen, Erkki (*with* Raußen, M.) Homotopy types of locally linear representation forms. (English summary) **97g:57056**
Lee, Jong Bum (*with* Park, Chan-Young) Nilpotent action by an elementary amenable group and Euler characteristic. **97g:57057**
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Fukui, Kazuhiko Remark on the actions of $\mathbf{R}^p$ on foliated manifolds. II. (English summary) **97j:57033**
Greenberg, Peter (*with* Sergiescu, Vlad) Piecewise projective homeomorphisms and a noncommutative Steinberg extension. (English summary) **97e:57037**
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Kolkara, Basil Shaju (*with* Mukerjee, Himadri Kumar) A Borsuk-Ulam theorem for maps of fibre bundles with manifolds as fibres. **97d:55031**
Kwasik, Sławomir (*with* Schultz, Reinhard) Fundamental groups of 4-manifolds with circle actions. (English summary) **97e:57015**
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Podestà, Fabio (*with* Spiro, Andrea F.) Some topological properties of cohomogeneity one manifolds with negative curvature. (English summary) **97c:53079**
Saari, Donald G. *see* **Kaplan, Samuel R.; et al., 97g:58059**
San Martin, Luiz A. B. (*with* Tonelli, Pedro A.) Semigroup actions on homogeneous spaces. (English summary) **97a:22008**
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Xia, Zhihong *see* **Kaplan, Samuel R.; et al., 97g:58059**
Yagita, Nobuaki Note on the spectral sequence converging to cohomology of an extra special p-group for odd prime p. **97c:55031**

57S30 Discontinuous groups of transformations

Dekimpe, Karel (*with* Malfait, Wim) Affine structures on a class of virtually nilpotent groups. (English summary) **97j:57060**
Kawabe, Tatsuya (*with* Watabe, Tsuyosi) The virtual solvability of the fundamental group of a compact complete flat spacetime of type $(n-2, 2)$. (English summary) **97h:57059**
Lee, Kyung Bai (*with* Raymond, Frank) Seifert manifolds with $\Gamma\backslash G/K$-fiber. **97i:57045**
Malfait, Wim *see* **Dekimpe, Karel, 97j:57060**
Raymond, Frank *see* **Lee, Kyung Bai, 97i:57045**
Rossetti, J. P. (*with* Tirao, P. A.) Compact flat manifolds with holonomy group $Z_2 \oplus Z_2$. (English summary) **97b:57032**
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Anderson, James W. (*with* Canary, Richard D.) Cores of hyperbolic 3-manifolds and limits of Kleinian groups. (English summary) **97k:57015**
Burde, Dietrich Left-invariant affine structures on reductive Lie groups. (English summary) **97d:22023**
Canary, Richard D. *see* **Anderson, James W., 97k:57015**
Hurder, Steven Infinitesimal rigidity for hyperbolic actions. **97f:58098**
Izeki, Hiroyasu A deformation of flat conformal structures. (English summary) **97c:53020**
Kaimanovich, Vadim A. (*with* Woess, Wolfgang) Construction of discrete, non-unimodular hypergroups. (English summary) **97j:43003**
Katok, Anatole B. (*with* Lewis, James Welsh; Zimmer, Robert J.) Cocycle superrigidity and rigidity for lattice actions on tori. **97e:22009**
Kobayashi, Toshiyuki Discontinuous groups and Clifford-Klein forms of pseudo-Riemannian homogeneous manifolds. **97g:53061**
Lewis, James Welsh *see* **Katok, Anatole B.; et al., 97e:22009**
Martin, Gaven J. Triangle subgroups of Kleinian groups. (English summary) **97g:57016**
McCarthy, John David (*with* Papadopoulos, Athanase) Fundamental domains in Teichmüller space. (English summary) **97a:30058**
Papadopoulos, Athanase *see* **McCarthy, John David, 97a:30058**
Szczepański, Andrzej Holonomy groups of five-dimensional Bieberbach groups. (English summary) **97e:20071**
Tukia, Pekka Erratum: "Convergence groups and Gromov's metric hyperbolic spaces" [New Zealand J. Math. **23** (1994), no. 2, 157–187; MR 96c:30042]. (English summary)
Woess, Wolfgang *see* **Kaimanovich, Vadim A., 97j:43003**
Xia, Yining On the connectivity of posets in the mapping class group. (English summary) **97k:57003**
Zimmer, Robert J. *see* **Katok, Anatole B.; et al., 97e:22009**

57S99 None of the above, but in this section

Iliman, Sören Every proper smooth action of a Lie group is equivalent to a real analytic action: a contribution to Hilbert's fifth problem. **97a:57037**

Items with secondary classifications in 57S99

Ahn, Soo Youp (*with* Chung, In Jae) The Reidemeister numbers on transformation groups. (English summary) **97j:57003**
Burago, Yu. D. (*with* Kalinin, B. V.) Remarks on a theorem of Newman. (Russian. Russian summary) **97i:54047**
Chung, In Jae *see* **Ahn, Soo Youp, 97j:57003**
Gaboriau, Damien Dynamique des systèmes d'isométries: sur les bouts des orbites. [Dynamics of systems of isometries: the ends of orbits] **97i:57028**
Kalinin, B. V. *see* **Burago, Yu. D., 97i:54047**
Volovikov, A. Yu. On a topological generalization of Tverberg's theorem. (Russian) **97d:57028**

57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16W30]

Panov, T. E. On the structure of the 2-Hopf algebra in the cohomology of four-dimensional manifolds. (Russian) **97f:57043**

Items with secondary classifications in 57T05

Aghamohammadi, A. *see* **Shariati, A.; et al., 97b:81052**
Hemmi, Yutaka A nonexterior Hopf algebra and loop spaces. (English summary) **97g:55011**
Khorrami, Mohammad *see* **Shariati, A.; et al., 97b:81052**
Lin, James P. Finitely generated cohomology Hopf algebras and torsion. (English summary) **97d:57049**
Shariati, A. (*with* Aghamohammadi, A.; Khorrami, Mohammad) The universal R-matrix for the Jordanian deformation of sl(2), and the contracted forms of so(4). (English summary) **97b:81052**

57T10 Homology and cohomology of Lie groups

Greenberg, Peter (*with* Sergiescu, Vlad) Piecewise projective homeomorphisms and a noncommutative Steinberg extension. (English summary) **97c:57037**
Mimura, Mamoru Homotopy theory of Lie groups. **97c:57038**
Sergiescu, Vlad *see* **Greenberg, Peter, 97c:57037**

Items with secondary classifications in 57T10

Boullay, Peter $H_3(\mathrm{Diff}^+(S^2);\mathbf{Z})$ contains an uncountable $\mathbf{Q}$-vector space. (English summary) **97g:58020**
Dynnikov, I. A. *see* **Veselov, A. P., 97h:58036**
Glover, H. H. (*with* Leary, Ian J.; Thomas, C. B.) The Yagita invariant of general linear groups. **97j:20047**
Leary, Ian J. *see* **Glover, H. H.; et al., 97j:20047**
Lee, Soo Teck (*with* Packer, Judith A.) The cohomology of the integer Heisenberg groups. (English summary) **97k:22014**
Liu, Xiaobo Volume minimizing cycles in compact Lie groups. **97d:53063**
Packer, Judith A. *see* **Lee, Soo Teck, 97k:22014**
Thomas, C. B. *see* **Glover, H. H.; et al., 97j:20047**
Veselov, A. P. (*with* Dynnikov, I. A.) Integrable gradient flows and Morse theory. (Russian) **97h:58036**

57T15 Homology and cohomology of homogeneous spaces of Lie groups

Cho, Kyung-Bong A note on the graded vector spaces $P(M)$.
Losik, M. V. The cohomology of the complex of G-invariant forms on G-manifolds. (English summary) **97b:57033**
Shiga, Hiroo Equivariant de Rham cohomology of homogeneous spaces. (English summary) **97c:57039**

Items with secondary classifications in 57T15

Onishchik, A. L. ★ Топология транзитивных групп преобразований. (Russian. English and Russian summaries) [Topology of transitive transformation groups] **97j:57057**
Sánchez, Cristián U. The index number of an R-space: an extension of a result of M. Takeuchi's. (English summary) **97e:53099**

57T20 Homotopy groups of topological groups and homogeneous spaces

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Boyer, Charles P. (*with* Galicki, Krzysztof; Mann, Benjamin M.) On strongly inhomogeneous Einstein manifolds. **97a:53069**
Chaves, Lucas M. (*with* Rigas, A.) Complex reflections and polynomial generators of homotopy groups. (English summary) **97g:55020**
Davis, Donald M. Computing v_1-periodic homotopy groups of spheres and some compact Lie groups. **97g:55017**
Galicki, Krzysztof *see* **Boyer, Charles P.; et al., 97a:53069**
Lam, Kee Yuen (*with* Randall, Duane) Geometric dimension of bundles on real projective spaces. (English summary) **97c:55030**
Mann, Benjamin M. *see* **Boyer, Charles P.; et al., 97a:53069**
Randall, Duane *see* **Lam, Kee Yuen, 97c:55030**
Rigas, A. *see* **Chaves, Lucas M., 97g:55020**

57T25 Homology and cohomology of H-spaces

Lin, James P. Finitely generated cohomology Hopf algebras and torsion. (English summary) **97d:57049**
Yagita, Nobuaki Pontrjagin rings of the Morava K-theory for finite H-spaces. **97i:57046**

Items with secondary classifications in 57T25

Hemmi, Yutaka A nonexterior Hopf algebra and loop spaces. (English summary) **97g:55011**
Lin, James P. H-spaces with finiteness conditions. **97c:55017**

57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Items with secondary classifications in 57T30

Baues, Hans-Joachim (*with* Tonks, Andrew) On the twisted cobar construction. **97k:55023**
Tonks, Andrew *see* **Baues, Hans-Joachim, 97k:55023**

58–XX Global analysis, analysis on manifolds [see also 32Cxx, 32Fxx, 46–XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]

58–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aldrovandi, R. (*with* Pereira, J. G.) ★ An introduction to geometrical physics. **97g:58001**
(Blumberg, Baruch) *see* **Coveney, Peter, 97f:58001**
Coveney, Peter (*with* Highfield, Roger) ★ Frontiers of complexity. (English summary) **97f:58001**
Highfield, Roger *see* **Coveney, Peter, 97f:58001**
Hoveijn, I. Dynamical systems and bifurcations. (Dutch) **97i:58001**
Pereira, J. G. *see* **Aldrovandi, R., 97g:58001**

Items with secondary classifications in 58–01

Browder, Andrew ★ Mathematical analysis. (English summary) **97g:00001**
Martelli, Mario Umberto ★ Discrete dynamical systems and chaos. (English summary) **97i:58104**
Perko, Lawrence ★ Differential equations and dynamical systems. **97g:34002**
Robinson, Clark ★ Dynamical systems. **97e:58064**
Weintraub, Steven H. ★ Differential forms. **97g:58002**

58–02 Research exposition (monographs, survey articles)

Arnol'd, V. I. Topological problems in the theory of wave propagation. (Russian) **97c:58001**
Atiyah, Michael Francis Quantum theory and geometry. **97d:58001**
— Geometry and physics: where are we going? **97j:58001**
de Azcárraga, José A. (*with* Izquierdo, José M.) ★ Lie groups, Lie algebras, cohomology and some applications in physics. (English summary) **97c:58002**
Bolsinov, A. V. (*with* Fomenko, A. T.) Unsolved problems and problems in the theory of the topological classification of integrable systems. (Russian) **97i:58002**
(Corfield, David) *see* **Gouyet, Jean-François, 97d:58002**
Fomenko, A. T. *see* **Bolsinov, A. V., 97i:58002**
Gouyet, Jean-François ★ Physics and fractal structures. **97d:58002**
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(Mandelbrot, Benoit B.) *see* **Gouyet, Jean-François, 97d:58002**

Items with secondary classifications in 58–02

Kozlov, Valeriĭ V. Problemata nova, ad quorum solutionem mathematici invitantur. **97e:70001**
Landa, P. S. ★ Nonlinear oscillations and waves in dynamical systems. (English summary) **97h:00008**
Nicolaescu, Liviu I. ★ Lectures on the geometry of manifolds. **97k:53001**
Rockafellar, R. Tyrrell ★ Convex analysis. (English summary) **97m:49001**
Shatalov, V. E. *see* **Sternin, B. Yu., 97d:58192**
Sternin, B. Yu. (*with* Shatalov, V. E.) ★ Differential equations on complex manifolds. (English summary) **97d:58192**
Willem, Michel ★ Minimax theorems. **97h:58037**

58–03 Historical (must also be assigned at least one classification number from Section 01)

Evtushik, L. E. Geometry of ordinary differential equations. Investigations of Laptev-Vasil'ev seminar at the Moscow University (1980–1992). **97c:58003**

Items with secondary classifications in 58–03

Dahan-Dalmedico, Amy Le difficile héritage de Henri Poincaré en systèmes dynamiques. (French summary) [The difficult legacy of Henri Poincaré in dynamical systems] **97c:01024**
Feigenbaum, Mitchell J. Computer-generated physics. (*see* **97a:00023**)
Nabonnand, Philippe Henri Poincaré et le problème des géodésiques sur une surface convexe. (French summary) [Henri Poincaré and the problem of geodesics on a convex surface] **97c:01030**

58–04 Explicit machine computation and programs (not the theory of computation or programming)

Ayari, M. A. (*with* Hussin, V.) GLie: a MAPLE program for Lie supersymmetries of Grassmann-valued differential equations. (English summary) **97k:58001**
Hussin, V. *see* **Ayari, M. A., 97k:58001**

Items with secondary classifications in 58–04

Christensen, Steven M. Computational challenges in heat kernel calculations. **97k:58158**
Guckenheimer, John Computer proofs for bifurcations of planar dynamical systems. (English summary) **97i:58123**
Koseleff, P.-V. Exhaustive search of symplectic integrators using computer algebra. (English summary) **97g:70002**
Lai, Choy-Heng (*with* Zhou, C. T.; Yu, Ming-Young) Bifurcation structure and periodic orbits of the Lorenz equations in the Prandtl number space. (English summary)
Yu, Ming-Young *see* **Lai, Choy-Heng; et al.**
Zgliczyński, Piotr Computer assisted proof of the horseshoe dynamics in the Hénon map. (English summary) **97j:58107**
Zhou, C. T. *see* **Lai, Choy-Heng; et al.**

58–06 Proceedings, conferences, collections, etc.

(Abraham, Neal B.) *see* **Measures of spatio-temporal dynamics, 97d:58004**
(Afraĭmovich, V. S.) *see* **Nonlinear dynamics, bifurcations and chaotic behavior, 97c:58005**
(Aizawa, Y.) *see* **Dynamical systems and chaos, 97h:58002**
(Albano, Alfonso M.) *see* **Measures of spatio-temporal dynamics, 97d:58004**
(Albert, Claude) *see* **Integrable systems and foliations, 97h:58003**
(Alsedà, Lluís) *see* **Thirty years after Sharkovskiĭ's theorem: new perspectives, 97d:58006**
(Álvarez López, Jesús A.) *see* **Analysis and geometry in foliated manifolds, 97d:58003**
(Ambrosetti, Antonio) *see* **Variational and local methods in the study of Hamiltonian systems, 97d:58007**
(Aston, Philip J.) *see* **Nonlinear mathematics and its applications, 97d:58005**
(Babelon, Olivier) *see* **Lectures on integrable systems, 97i:58004**
(Baker, Garth) *see* **Nonlinear partial differential equations in geometry and physics, 97i:58005**
(Balibrea Gallego, Francisco) *see* **Thirty years after Sharkovskiĭ's theorem: new perspectives, 97d:58006**
(Brouzet, Robert) *see* **Integrable systems and foliations, 97h:58003**
(Cartier, Pierre) *see* **Lectures on integrable systems, 97i:58004**
(Chandra, S.) *see* **Chaos, disorder and fractals, 97i:58003**
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58Axx General theory of differentiable manifolds

58A05 Differentiable manifolds, foundations

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58B99 None of the above, but in this section

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Taniguchi, Setsuo On almost complex structures on abstract Wiener spaces. **97e:60094**
Yur'ev, D. V. Complex projective geometry and quantum projective field theory. (Russian. English and Russian summaries) **97g:81034**

58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

58C05 Real-valued functions

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Feres, Renato Actions of discrete linear groups and Zimmer's conjecture. (English summary) **97a:22016**
Fonf, V. P. *see* **Deville, Robert; et al., 97h:46012**
Hájek, Petr[2] *see* **Deville, Robert; et al., 97h:46012**
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58C06 Set valued and function-space valued mappings [see also 47H04, 54C60]

Chou, Chin Ch'êng (*with* Huang, Liren; Ng, Kung Fu) On closed graph and implicit function theorems for multifunctions. (English summary) **97h:58017**
Fournier, Gilles (*with* Violette, Donald) Differentiability of single-valued type for a class of multivalued maps. (English summary) **97b:58015**
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Violette, Donald *see* **Fournier, Gilles, 97b:58015**

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Moors, Warren B. A selection theorem for weak upper semi-continuous set-valued mappings. (English summary) **97b:46063**
Wąsowicz, Szymon On affine selections of set-valued functions. (English summary) **97e:26025**
Zhang, Fu Bao Applications of fixed point indices of set-valued mappings to the problem of nonunique solutions to differential and integral inclusions. (Chinese. Chinese summary) **97j:47082**

58C10 Holomorphic maps [see also 32–XX]

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Matsuda, Yasuo Extension of holomorphic mappings in infinite dimension. (English summary) **97j:46047**
Reich, Simeon (*with* Shoĭkhet, D. M.) Generation theory for semigroups of holomorphic mappings in Banach spaces. (English summary) **97g:47071**
Shoĭkhet, D. M. *see* **Reich, Simeon, 97g:47071**

58C15 Implicit function theorems; global Newton methods

Fečkan, Michal Note on a local invertibility. (English summary) **97k:58021**
Kolke, Minoru Inverse mapping theorem in the ultradifferentiable class. **97k:58022**

Mehrez, A. Théorème d'inversion locale pour les multiapplications dans les espaces de type de Nash-Moser. (English summary) [Local inversion theorem for multivalued mappings in Nash-Moser spaces] **97f:58012**
Poppenberg, Markus An inverse function theorem for Fréchet spaces admitting generalized smoothing operators. **97f:58013**
Sohou, Toussaint Sur le théorème d'inversion locale dans les variétés de Nash-Moser. (French summary) [Local inversion theorem for Nash-Moser manifolds] **97m:58016**

Items with secondary classifications in 58C15

Benlarbi, Miloud Caractère lipschitzien et dérivabilité directionnelle des solutions de systèmes d'équations et d'inéquations paramétrés. (English and French summaries) [Lipschitz character and directional derivability of the solutions of systems of parametrized equations and inequalities] **97h:90069**
Chou, Chin Ch'èng (*with* Huang, Liren; Ng, Kung Fu) On closed graph and implicit function theorems for multifunctions. (English summary) **97h:58017**
Hirsch, Morris W. Stochastic perturbations of dynamical systems. **97f:62137**
Huang, Liren *see* **Chou, Chin Ch'èng; et al., 97h:58017**
Janovský, Vladimír (*with* Seige, Viktor) Qualitative analysis of Newton's flow. (English summary) **97i:65090**
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Penot, Jean-Paul Inverse functions theorems for mappings and multimappings. (English summary) **97d:49020**
Poppenberg, Markus Negative results on the Nash-Moser theorem for Köthe sequence spaces and for spaces of ultradifferentiable functions. (English summary) **97h:46007**
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Serovaĭskiĭ, S. Ya. An inverse mapping theorem and extended differentiability in Banach spaces. (Russian) **97g:49023**
Slezák, B. An inverse-function theorem in topological groups. **97a:46055**
— Implicit function theorem in uniform spaces. **97d:54055**
Trenogin, V. A. Global invertibility of nonlinear operators and the parameter continuation method. (Russian) **97k:47053**

58C20 Differentiation theory (Gateaux, Fréchet, etc.) [see also 26Exx, 46G05]

Acosta G., Ernesto Noncommutative differentiability. (Spanish. Spanish summary) **97b:58016**

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Borwein, Jonathan M. (*with* Wang, Xianfu) Distinct differentiable functions may share the same Clarke subdifferential at all points. (English summary) **97e:49015**
Contreras, Manuel D. Strong subdifferentiability in spaces of vector-valued continuous functions. **97f:46055**
Ferrer-Llopis, Jesús Rolle's theorem fails in l_2. **97h:46068**
Fournier, Gilles (*with* Violette, Donald) Differentiability of single-valued type for a class of multivalued maps. (English summary) **97b:58015**
Giles, J. R. Generic differentiability of locally Lipschitz functions on product spaces. (English summary) **97g:46056**
— (*with* Sciffer, S. D.) On weak Hadamard differentiability of convex functions on Banach spaces. (English summary) **97g:46057**
Jourani, Abderrahim (*with* Thibault, L.) Extensions of subdifferential calculus rules in Banach spaces. (English summary) **97d:49018**
Koike, Minoru Inverse mapping theorem in the ultradifferentiable class. **97k:58022**
Levy, A. B. (*with* Rockafellar, R. Tyrrell) Variational conditions and the proto-differentiation of partial subgradient mappings. **97h:49026**
Margheri, A. *see* **Bianchini, R. M., 97d:93017**
Mititelu, Ştefan Generalized subdifferential calculus. (English summary) **97f:49021**
Mordukhovich, Boris S. (*with* Shao, Yong Heng) On nonconvex subdifferential calculus in Banach spaces. (English summary) **97a:49022**
— (*with* Shao, Yong Heng) Nonconvex differential calculus for infinite-dimensional multifunctions. (English summary) **97i:49024**
Páles, Zsolt (*with* Zeidan, V. M.) Generalized Hessian for $C^{1,1}$ functions in infinite-dimensional normed spaces. (English summary) **97d:49019**
Poliquin, R. A. (*with* Rockafellar, R. Tyrrell) Generalized Hessian properties of regularized nonsmooth functions. (English summary) **97j:49025**
Rockafellar, R. Tyrrell *see* **Levy, A. B., 97h:49026** *and* **Poliquin, R. A., 97j:49025**
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Tang, Wee-Kee Uniformly differentiable bump functions. (English summary) **97j:46010**
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Violette, Donald *see* **Fournier, Gilles, 97b:58015**
Vodop'yanov, S. K. (*with* Ukhlov, A. D.) Approximately differentiable transformations and the change of variables on nilpotent groups. (Russian. Russian summary) **97f:22011**
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58C25 Differentiable maps

Chaperon, Marc Fonctions "admissibles" en géométrie différentielle. ["Admissible" functions in differential geometry] **97f:58014**
Cima, Anna (*with* Gasull, Armengol; Mañosas, Francesc) Injectivity of polynomial local homeomorphisms of $\mathbf{R}^n$. **97a:58011**
Comte, Georges Sur les hypothèses du théorème de Sard pour le lieu critique de rang zéro. (English and French summaries) [On the smoothness hypotheses in Sard's theorem about the rank-zero critical locus] **97h:58018**
Constantin, Adrian Critical values of differentiable maps. (English summary) **97e:58022**
Dell'Achchio, F. A counterexample to a conjecture associated with the Jacobian problem. (Russian) **97b:58017**
Gasull, Armengol *see* **Cima, Anna; et al., 97a:58011**
Mañosas, Francesc *see* **Cima, Anna; et al., 97a:58011**
Pintea, Cornel Some remarks concerning the Whitney's theorem. **97e:58023**
— The Whitney's theorems in an approximation problem. (English summary) **97a:58012**
Riestra, J.-A. ★ A generalized Taylor's formula for functions of several variables and certain of its applications. (English summary) **97c:58016**

Items with secondary classifications in 58C25

Andrica, Dorin Functions with a minimal number of critical points. (English and Romanian summaries) **97j:57037**
Baranovich, A. M. (*with* Daletskiĭ, Yuriĭ L'vovich) Some differential-geometric models in the class of formal operator power series. (Russian. English and Ukrainian summaries) **97j:46044**
Bates, S. M. (*with* Norton, Alec) On sets of critical values in the real line. **97h:58019**
Bierstone, Edward (*with* Milman, Pierre D.; Pawłucki, Wiesław) Composite differentiable functions. **97k:32011**
Daletskiĭ, Yuriĭ L'vovich *see* **Baranovich, A. M., 97j:46044**
Goncharov, A. P. Compound invariants and spaces of C^∞ functions. (English summary) **97k:46022**
Milman, Pierre D. *see* **Bierstone, Edward; et al., 97k:32011**
Norton, Alec *see* **Bates, S. M., 97h:58019**
Pawłucki, Wiesław *see* **Bierstone, Edward; et al., 97k:32011**
Suzuki, Masuo Algebraic formulation of quantum analysis and its applications to Laurent series operator functions. (English summary) **97j:47094**
Wiegmink, Gerrit Total bending of vector fields on Riemannian manifolds. **97a:53050**

58C27 Singularities of differentiable maps [see also 14B05, 14E15, 32Sxx]

Ando, Yoshifumi On Thom polynomials of the singularities D_k and E_k. **97f:58015**
Aoki, Kenji A note on geometric changes of complete solutions of first order differential equations. **97e:58024**
Bates, S. M. (*with* Norton, Alec) On sets of critical values in the real line. **97h:58019**
Bogaevskiĭ, I. A. Singularities of short linear waves on the plane. (English summary) **97k:58023**
Bruce, J. W. (*with* Tari, F.) Extrema of principal curvature and symmetry. (English summary) **97c:58017**
— (*with* Kirk, N. P.; du Plessis, Andrew) Complete transversals and the classification of singularities. (English summary) **97j:58010**
Cao, Yi² The deformation of matrix valued functions. (English and Chinese summaries) **97i:58015**
Cen, Yan Bin *see* **Cen, Yan Ming, 97m:58017**
Cen, Yan Ming (*with* Cen, Yan Bin) Global Whitney's lemma and its application in plasticity theory. (English summary) **97m:58017**
Chekanov, Yu. V. Critical points of quasifunctions, and generating families of Legendrian manifolds. (Russian. Russian summary) **97f:58016**
Fronville, Alexandra Théorème de la singularité résiduelle isochore. (English and French summaries) [A volume-preserving splitting theorem] **97a:58013**
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Gao, Shou Ping Finite $\mathscr{R}_k$-determinacy of smooth map germs. (Chinese. English and Chinese summaries) **97m:58018**
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58C30 Fixed point theorems on manifolds [see also 47H10]

Balanov, Z. I. *see* **Kushkuleĭ, A. Kh., 97m:58024**
Greco, Luigi (*with* Iwaniec, Tadeusz; Sbordone, Carlo; Stroffolini, Bianca) Degree formulas for maps with nonintegrable Jacobian. **97d:58027**
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Krawcewicz, Wiesław (*with* Wu, Jian Hong) ★ Theory of degrees with applications to bifurcations and differential equations. **97j:47083**
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58C35 Integration on manifolds; measures on manifolds [see also 28Cxx]

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58C50 Analysis on supermanifolds or graded manifolds

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de Azcárraga, José A. (*with* Izquierdo, José M.) ★ Lie groups, Lie algebras, cohomology and some applications in physics. (English summary) **97c:58002**
Flondor, Paul (*with* Pascu, Eugen) Some $\mathbf{R}[\varepsilon]$-manifolds of real dimension 2. **97g:58009**
Inoue, Atsushi[1] On a construction of the fundamental solution for the free Weyl equation by Hamiltonian path-integral. **97i:58025**
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Khudaverdyan, O. M. (*with* Nersesyan, A. P.) Batalin-Vilkovisky formalism and integration theory on manifolds. (English summary) **97h:81227**
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58C99 None of the above, but in this section

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Huang, Wen Hua A generalized global extremum theorem. (Chinese. English and Chinese summaries)

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

Alemzadeh, A. A. Homomorphic extensions of groups of diffeomorphisms. (English and Persian summaries) **97j:58012**
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Eichhorn, Jürgen (*with* Schmid, Rudolf) Form preserving diffeomorphisms on open manifolds. (English summary) **97f:58020**
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Tsuboi, Takashi Small commutators of piecewise linear homeomorphisms of the real line. **97g:57031**
Ustilovsky, Ilya Conjugate points on geodesics of Hofer's metric. (English summary) **97k:58066**

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Hofer, Helmut (*with* Wysocki, K.; Zehnder, Eduard) Properties of pseudo-holomorphic curves in symplectisations. II. Embedding controls and algebraic invariants. **97e:58030**
— (*with* Wysocki, K.; Zehnder, Eduard) Properties of pseudoholomorphic curves in symplectisations. I. Asymptotics. (English and French summaries) **97e:58029**
Kuksin, Sergeĭ B. Pseudoholomorphic 2-tori in $\mathbf{T}^4$. (English summary) **97d:58028**
Kusner, Rob (*with* Mazzeo, Rafe; Pollack, Daniel) The moduli space of complete embedded constant mean curvature surfaces. (English summary) **97b:58022**
Mazzeo, Rafe *see* **Kusner, Rob; et al., 97b:58022**
Oh, Yong-Geun Fredholm theory of holomorphic discs under the perturbation of boundary conditions. **97g:58024**
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Polterovich, Leonid Gromov's K-area and symplectic rigidity. **97e:58031**
Ruan, Yongbin (*with* Tian, Gang) Higher genus symplectic invariants and sigma model coupled with gravity. **97d:58029**
Sadov, V. A. On equivalence of Floer's and quantum cohomology. (English summary) **97h:58027**
Taubes, Clifford Henry Counting pseudo-holomorphic submanifolds in dimension 4. **97k:58029**
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Yul'metov, R. R. A linear connection on a Fréchet manifold. (Russian. Russian summary) **97e:58032**
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Beem, John K. (*with* Low, Robert J.; Parker, Phillip E.) Spaces of geodesics: products, coverings, connectedness. (English summary) **97a:53061**
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Fukaya, Kenji Topological field theory and Morse theory. (Japanese)
Jinzenji, Masao (*with* Sun, Yi) Calculation of Gromov-Witten invariants for $\mathbf{CP}^3$, $\mathbf{CP}^4$ and $\mathrm{Gr}(2,4)$. (English summary) **97f:14052**
Kontsevich, M. L. Rigorous results in topological σ-model. **97d:14078**
Lê Hông Vân (*with* Ono, Kaoru) Perturbation of pseudo-holomorphic curves. Addendum to: "Notes on symplectic 4-manifolds with $b_2^+ = 1$. II" [Internat. J. Math. 7 (1996), no. 6, 755–770; MR 97k:57042] by H. Ohta and Ono. **97k:57043**
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(Ohta, Hirofumi) *see* **Lê Hông Vân, 97k:57043**
Ohta, Hiroshi[4] (*with* Ono, Kaoru) Notes on symplectic 4-manifolds with $b_2^+ = 1$. II. **97k:57042**
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Taubes, Clifford Henry SW ⇒ Gr: from the Seiberg-Witten equations to pseudo-holomorphic curves. **97a:57033**
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58D15 Manifolds of mappings [see also 54C35]

Baldo, Sisto (*with* Orlandi, Giandomenico) Homotopy types for tamely approximable Sobolev maps between manifolds. (English summary) **97d:58030**
Orlandi, Giandomenico *see* **Baldo, Sisto, 97d:58030**
Popuţa, Vasile Propriété des difféomorphismes Sobolev conservant la fibre. (French summary) [A property of fiber-preserving Sobolev diffeomorphisms] **97a:58018**

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Eichhorn, Jürgen (*with* Schmid, Rudolf) Form preserving diffeomorphisms on open manifolds. (English summary) **97f:58020**
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Kuksin, Sergeĭ B. Double-periodic solutions of nonlinear Cauchy-Riemann equations. (English summary) **97a:58036**
Sapronov, Yu. I. Existence and comparison of finite-dimensional reductions for smooth functionals. (Russian. Russian summary) **97h:58044**
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— Some equivalent norms in Sobolev-Besov spaces on symmetric Riemannian manifolds. (English summary) **97f:46052**
Thomas, Erik G. F. Vector fields as derivations on nuclear manifolds. (English summary) **97d:58012**

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Wurzbacher, Tilmann Symplectic geometry of the loop space of a Riemannian manifold. (English summary) **97d:58015**
Young, Todd R. C^k-smoothness of invariant curves in a global saddle-node bifurcation. (English summary) **97a:58137**

58D17 Manifolds of metrics (esp. Riemannian)

Eichhorn, Jürgen Spaces of Riemannian metrics on open manifolds. (*see* **97i:53001**)
Fomin, V. E. (*with* Yul'metov, R. R.) Linear connections and geodesic curves on Fréchet manifolds. (Russian) **97i:58017**
Nabutovsky, A. Disconnectedness of sublevel sets of some Riemannian functionals. (English summary) **97i:58018**
Salomonsen, Gorm On the completions of the spaces of metrics on an open manifold. (English summary) **97h:58028**
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58D99 None of the above, but in this section

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— (*with* Wang, Zhi Qiang[1]) On the existence of sign changing solutions for semilinear Dirichlet problems. **97m:35076**
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58E07 Abstract bifurcation theory

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— (*with* Theil, F.) Variation of bifurcations along a homotopy from Neumann to Dirichlet problems. **97h:35017**
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Vivi, Paola (*with* Xia, Hua Xing) Equivariant bifurcation theory for multivalued maps and its applications to neutral functional-differential inclusions. (English summary) **97a:58034**
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— (*with* Golubitsky, Martin; Stewart, Ian) Coupled cells with internal symmetry. II. Direct products. (English summary) **97j:58111**
Geiger, Ch. (*with* Dangelmayr, G.; Rodriguez, J. D.; Güttinger, W.) Symmetry breaking bifurcations in spherical Bénard convection. I. Results from singularity theory. **97c:58106**
— *see also* **Rodriguez, J. D.; et al., 97c:58107**
Golubitsky, Martin *see* **Hou, Chuanze, 97i:58103**; **Dionne, Benoit; et al., 97j:58110** *and* **97j:58111**
Güttinger, W. *see* **Geiger, Ch.; et al., 97c:58106** *and* **Rodriguez, J. D.; et al., 97c:58107**

Hou, Chuanze (*with* Golubitsky, Martin) An example of symmetry breaking to heteroclinic cycles. **97i:58103**
Loginov, B. V. Determination of the branching equation by its group symmetry—Andronov-Hopf bifurcation. **97m:58146**
Pierce, John Festus Symmetry-breaking bifurcations in Stoppelli's problem for pseudo-rigid bodies. (English summary) **97b:73029**
Rodriguez, J. D. (*with* Geiger, Ch.; Dangelmayr, G.; Güttinger, W.) Symmetry breaking bifurcations in spherical Bénard convection. II. Numerical results. **97c:58107**
— *see also* **Geiger, Ch.; et al., 97c:58106**
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Adachi, Toshiaki Magnetic flows for a surface of negative curvature. (English summary) **97e:58047**
— Curvature bound and trajectories for magnetic fields on a Hadamard surface. **97f:58035**
Antonacci, F. (*with* Piccione, Paolo) A Fermat principle on Lorentzian manifolds and applications. (English summary) **97b:58030**
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Calabi, Eugenio (*with* Olver, Peter J.; Tannenbaum, Allen) Affine geometry, curve flows, and invariant numerical approximations. (English summary) **97k:58040**
Chow, Bennett (*with* Liou, Lii-Perng; Tsai, Dong-Ho) Expansion of embedded curves with turning angle greater than $-\pi$. **97c:58025**
— (*with* Tsai, Dong-Ho) Geometric expansion of convex plane curves. **97m:58041**
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Dombrowski, Peter The brachistochrone problem: a problem of elementary differential geometry. **97k:58041**
Fortunato, Donato (*with* Masiello, Antonio) Fermat principles in general relativity and the existence of light rays on Lorentzian manifolds. (English summary) **97i:58030**
Giannoni, Fabio (*with* Majer, Pietro) On the best estimate of the number of orthogonal geodesic chords on a manifold with boundary homeomorphic to an annulus. (English summary) **97g:58038**
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Kichenassamy, Satyanad (*with* Kumar, Arun; Olver, Peter J.; Tannenbaum, Allen; Yezzi, Anthony, Jr.) Conformal curvature flows: from phase transitions to active vision. (English summary) **97j:58023**
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Mizoguchi, Noriko Existence of selfsimilar shrinking curves for anisotropic curvature flow equations. **97b:58031**
Molina, Juan Existence and multiplicity of normal geodesics on static space-time manifolds. (Italian summary) **97a:58035a**
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Pelletier, Fernand (*with* Bouche, Liane Valere) The problem of geodesics, intrinsic derivation and the use of control theory in singular sub-Riemannian geometry. (English and French summaries) **97i:58031**
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— On the existence of light-like geodesics on conformally stationary Lorentzian manifolds. **97j:58025**
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Balan, Vladimir (*with* Trenčevski, Kostadin) Deviations of stationary curves in the extended fibred Finslerian approach. Characterization and analytical solutions for E.D.G. (English summary) **97b:53023**
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Giannoni, Fabio (*with* Masiello, Antonio) On a Fermat principle in general relativity. A Morse theory for light rays. (English summary) **97d:83013**
Ginzburg, Viktor L. On the existence and non-existence of closed trajectories for some Hamiltonian flows. **97i:58144**
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Kolso, Norihito On a wave equation corresponding to geodesics. **97d:58061**
Lalonde, François (*with* McDuff, Dusa) Errata: "Hofer's L^∞-geometry: energy and stability of Hamiltonian flows. I, II" [Invent. Math. **122** (1995), no. 1, 1–33, 35–69; MR 96h:58063]. **97b:58060**
Lee, Kyung Bai (*with* Park, Keun) Smoothly closed geodesics in 2-step nilmanifolds. (English summary) **97h:53044**
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Paternain, Gabriel P. Topological entropy for geodesic flows on fibre bundles over rationally hyperbolic manifolds. (English summary) **97j:58120**
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Ustilovsky, Ilya Conjugate points on geodesics of Hofer's metric. (English summary) **97k:58066**

58E11 Critical metrics

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Chang, Shun-Cheng Compactness theorems for critical metrics of the Weyl functional on compact Kähler surfaces. (English summary) **97j:58026**
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Gil-Medrano, Olga Some Riemannian functionals related with scalar curvature. (English summary) **97g:58040**
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Nadel, Alan M. On the absence of periodic points for the Ricci curvature operator acting on the space of Kähler metrics. **97h:58042**
Oh, Won Tae *see* **Park, Joon-Sik, 97g:58041**
Park, Joon-Sik (*with* Oh, Won Tae) The Abbena-Thurston manifold as a critical point. (English summary) **97g:58041**
Schoen, Richard M. (*with* Zhang, Dong) Prescribed scalar curvature on the n-sphere. (English summary) **97j:58027**
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— Four-manifolds without Einstein metrics. (English summary) **97a:53072**
Morpurgo, C. The logarithmic Hardy-Littlewood-Sobolev inequality and extremals of zeta functions on S^n. (English summary) **97d:58203**
Pedersen, Henrik (*with* Poon, Yat Sun; Swann, Andrew) Einstein-Weyl deformations and submanifolds. (English summary) **97g:53057**
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Sambusetti, Andrea An obstruction to the existence of Einstein metrics on 4-manifolds. (English and French summaries) **97c:53073**
Swann, Andrew *see* **Pedersen, Henrik; et al., 97g:53057**

58E12 Applications to minimal surfaces (problems in two independent variables)

Altschuler, Steven J. (*with* Wu, Lang F.) Translating surfaces of the non-parametric mean curvature flow with prescribed contact angle. (English summary) **97b:58032**
Borisovich, A. Yu. Bifurcation in some equivariant Plateau problem. (English and Russian summaries) **97f:58039**
Dziuk, Gerhard (*with* Hutchinson, John E.) L^2 estimates for approximations to minimal surfaces. (English summary) **97g:58042**
Ecker, Klaus On regularity for mean curvature flow of hypersurfaces. **97f:58040**
Garofalo, Nicola (*with* Nhieu, Duy-Minh) Isoperimetric and Sobolev inequalities for Carnot-Carathéodory spaces and the existence of minimal surfaces. **97i:58032**
Hong, Min-Chun Two estimates concerning asymptotics of the minimizations of a Ginzburg-Landau functional. (English summary) **97m:58044**
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Jost, Jürgen Orientable and nonorientable minimal surfaces. (English summary) (*see* **97a:00029**)
Kapouleas, Nicolaos Constant mean curvature surfaces in Euclidean spaces. **97d:58053**
Kuksin, Sergei B. Double-periodic solutions of nonlinear Cauchy-Riemann equations. (English summary) **97a:58036**
Lami Dozo, E. (*with* Mariani, M. C.) Solutions to the Plateau problem for the prescribed mean curvature equation via the mountain pass lemma. (English summary) **97b:58033**

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Morgan, Frank For the minimal surface equation, the set of solvable boundary values need not be convex. (English summary) **97c:58027**
Musso, Emilio (*with* Nicolodi, Lorenzo) A variational problem for surfaces in Laguerre geometry. (English summary) **97a:58037**
Nehring, Thomas Embedded minimal annuli solving an exterior problem. (English summary) **97k:58045**
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Struwe, Michael Singular perturbations of geometric variational problems. (English summary) **97i:58033**
Toda, Masahito On the existence of H-surfaces into Riemannian manifolds. (English summary) **97k:58046**
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Zalgaller, V. A. Extremal problems on the convex hull of a space curve. (Russian. Russian summary) **97c:58028**

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Athanassenas, Maria Bernstein's theorem. (English summary) **97d:49042**
Bellettini, G. (*with* Paolini, Maurizio) Some results on minimal barriers in the sense of De Giorgi applied to driven motion by mean curvature. (English and Italian summaries) **97b:49038**
Brakke, Kenneth A. Soap films and covering spaces. (English summary) **97f:49054**
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De Giorgi, Ennio General Plateau problem and geodesic functionals. (Italian) **97a:49055**
DiBenedetto, Emmanuele (*with* Diller, David J.) About a singular parabolic equation arising in thin film dynamics and in the Ricci flow for complete $\mathbf{R}^2$. **97d:35113**
Diller, David J. *see* **DiBenedetto, Emmanuele, 97d:35113**
Duzaar, Frank Hypersurfaces with constant mean curvature and prescribed area. (English summary) **97j:49046**
Fierro, Francesca (*with* Paolini, Maurizio) Numerical evidence of fattening for the mean curvature flow. (English summary) **97j:65210**
Finn, Robert Local and global existence criteria for capillary surfaces in wedges. (English summary) **97f:53005**
Grisanti, Carlo-Romano Approximation of a capillarity type problem by Plateau problems. (Italian summary) **97j:49047**
Hass, Joel (*with* Morgan, Frank) Geodesics and soap bubbles in surfaces. **97j:53009**
Ilmanen, T. A strong maximum principle for singular minimal hypersurfaces. **97g:49052**
Iseri, Howard On the existence of minimal surfaces with singular boundaries. (English summary) **97a:53010**
Jakobowsky, Norbert A result on large surfaces of prescribed mean curvature in a Riemannian manifold. (English summary) **97k:53012**
Johnson, David Lewis (*with* Smith, Penelope) Regularity of mass-minimizing one-dimensional foliations. (English summary) **97g:49057**
Kusner, Rob Estimates for the biharmonic energy on unbounded planar domains, and the existence of surfaces of every genus that minimize the squared-mean-curvature integral. (English summary) **97k:53013**
Lawlor, Gary R. (*with* Murdoch, Timothy A.) A note about the Veronese cone. **97a:49056**
Luckhaus, Stephan (*with* Sturzenhecker, Thomas) Implicit time discretization for the mean curvature flow equation. (English summary) **97e:65085**
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Pérez, Joaquín (*with* Ros, Antonio) The space of properly embedded minimal surfaces with finite total curvature. (English summary) **97k:58034**
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Zhang, Zheng Jie A constrained minimization problem associated with isoperimetric inequalities. (Chinese. English and Chinese summaries) **97a:49054**

58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

Altschuler, Steven J. (*with* Angenent, Sigurd B.; Giga, Yoshikazu) Mean curvature flow through singularities for surfaces of rotation. (English summary) **97j:58029**
Ambrosio, Luigi (*with* Soner, Halil Mete) Level set approach to mean curvature flow in arbitrary codimension. (English summary) **97k:58047**
Andrews, Ben Contraction of convex hypersurfaces by their affine normal. (English summary) **97m:58045**
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Bartosiewicz, Z. Ordinary differential equations on singular spaces. (*see* **97i:34003**)
Benjamini, Itai (*with* Cao, Jianguo) A new isoperimetric comparison theorem for surfaces of variable curvature. **97m:58046**
Brylinski, Jean-Luc Radon transform and functionals on the spaces of curves. **97k:58048**
Cao, Jianguo *see* **Benjamini, Itai, 97m:58046**
Chae, Dongho (*with* Kim, Namkwon) Topological multivortex solutions of the self-dual Maxwell-Chern-Simons-Higgs system. (English summary) **97m:58047**
Ei, Shin-Ichiro (*with* Sato, Moto-Hiko; Yanagida, Eiji) Stability of stationary interfaces with contact angle in a generalized mean curvature flow. (English summary) **97e:58049**
Giga, Yoshikazu (*with* Yama-uchi, Kazuyuki) On a lower bound for the extinction time of surfaces moved by mean curvature. (English summary) **97b:58035**
— *see also* **Altschuler, Steven J.; et al., 97j:58029**
Gross, Christian (*with* Schmitt, Andreas) Solutions of a two-dimensional Skyrme model on Aff(**R**). (English summary) **97k:58049**
Huang, Xianhua On instability of minimal foliations for a variational problem on T^2. (English summary) **97j:58030**
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Ma, Li (*with* Hui, Wang) A minimization problem arising from prescribing scalar curvature functions. **97c:58029**
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Rivière, Tristan Line vortices in the U(1)-Higgs model. (English summary) **97g:58043**
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Struwe, Michael The Yang-Mills flow in four dimensions. (English summary) **97i:58034**
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Tanno, Shukichi L^2 harmonic forms and stability of minimal hypersurfaces. **97f:58044**
Tarantello, Gabriella Multiple condensate solutions for the Chern-Simons-Higgs theory. (English summary) **97f:58045**
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Ben Ayed, Mohamed (*with* Chen, Yansong; Chtioui, Hichem; Hammami, Mokhles) On the prescribed scalar curvature problem on 4-manifolds. **97g:53047**
Brodbeck, Othmar (*with* Heusler, M.; Lavrelashvili, G. V.; Straumann, Norbert; Volkov, M. S.) Stability analysis of new solutions of the EYM system with a cosmological constant. (English summary) **97j:81214**
Cao, Dao Min (*with* Chabrowski, J.) On the number of positive solutions for nonhomogeneous semilinear elliptic problem. (English summary) **97j:35045**
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Chen, Yansong *see* **Ben Ayed, Mohamed; et al., 97g:53047**
Chow, Bennett (*with* Liou, Lii-Perng; Tsai, Dong-Ho) On the nonlinear parabolic equation $\partial_t u = F(\Delta u + nu)$ on S^n. **97h:35083**
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Dierkes, Ulrich Curvature estimates for minimal hypersurfaces in singular spaces. (English summary) **97a:53096**

Duzaar, Frank Hypersurfaces with constant mean curvature and prescribed area. (English summary) **97j:49046**
Elliott, Charles M. (*with* Paolini, Maurizio; Schätzle, Reiner) Interface estimates for the fully anisotropic Allen-Cahn equation and anisotropic mean-curvature flow. (English summary) **97j:35066**
Ernst, K. D. The ends of the monopole moduli space over $\mathbf{R}^3\#$ (homology sphere). I, II. (English summary) **97f:58024**
Escobar, José F. Conformal metrics with prescribed mean curvature on the boundary. **97h:53040**
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Palmer, Bennett Hamiltonian minimality and Hamiltonian stability of Gauss maps. (English summary) **97m:53106**
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Simon, Leon Rectifiability of the singular set of energy minimizing maps. **97g:49058**
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58E17 Pareto optimality, etc., applications to economics

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Hasan, Mohammed A. (*with* Poore, Aubrey B.) Bifurcation analysis for singularities on a tangent space for quadratic penalty-barrier and multipliers methods for solving constrained optimization problems. I. (English summary) **97a:90075**
Poore, Aubrey B. *see* **Hasan, Mohammed A., 97a:90075**

58E20 Harmonic maps

Akutagawa, Kazuo Harmonic maps between hyperbolic spaces. (Japanese) **97j:58031**
de Almeida, Luis Manuel Lopes Neves The regularity problem for generalized harmonic maps into homogeneous spaces. (English summary) **97a:58040**
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Bizoń, Piotr Harmonic maps between three-spheres. (English summary) **97d:58056**
Bolton, John (*with* Woodward, Lyndon M.) The affine Toda equations in the geometry of surfaces. (English summary) **97c:58031**
— (*with* Woodward, Lyndon M.) On harmonic 2-spheres in S^4. (*see* **97i:53001**)
Burstall, F. E. (*with* Pedit, Franz) Dressing orbits of harmonic maps. **97e:58052**
Cheng, Qi Yuan *see* **Dong, Yu Xing**
Corlette, Kevin Harmonic maps, rigidity, and Hodge theory. **97g:58044**
Ding, Qing The Cauchy problem for harmonic maps on two-dimensional curved Lorentzian manifolds. (Chinese. Chinese summary) **97e:58053**
— (*with* Lu, Bao-Qun) On harmonic maps from $\mathbf{R}^{1,1}$ into Hilbert loop groups. (English summary) **97e:58054**
— (*with* Wang, Jiantian) A remark on harmonic maps between pseudo-Riemannian spheres. (English summary) **97h:58045**
Ding, Wei Yue (*with* Tian, Gang) Energy identity for a class of approximate harmonic maps from surfaces. **97e:58055**
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Dong, Yu Xing (*with* Cheng, Qi Yuan) Some notes on harmonic morphisms. (Chinese)
Duong Minh Duc Flows method in global analysis. (English summary) **97f:58046**
El Kacimi Alaoui, Aziz (*with* Gallego Gómez, Eduardo) Applications harmoniques feuilletées. [Foliated harmonic maps] **97f:58047**
El Soufi, Ahmad Indice de Morse des applications harmoniques de la sphère. [Morse index of harmonic maps of the sphere] **97a:58041**
— (*with* Jeune, Albert) Indice de Morse des applications p-harmoniques. (English and French summaries) [Morse index of p-harmonic mappings] **97d:58057**
Fardoun, Ali (*with* Ratto, Andrea) Harmonic maps with potential. (English summary) **97m:58051**
Farrell, F. T. (*with* Jones, Lowell Edwin) Some non-homeomorphic harmonic homotopy equivalences. (English summary) **97a:58042**
Freire, Alexandre Uniqueness for the harmonic map flow in two dimensions. (English summary) **97d:58058**
— Weak solutions of the harmonic map flow and related problems. **97j:58032**
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— Global weak solutions of the wave map system to compact homogeneous spaces. (English summary) **97j:58033**
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García-Río, Eduardo (*with* Vanhecke, Lieven; Vázquez-Abal, María Elena) Harmonic endomorphism fields. **97m:58052**
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Grotowski, Joseph F. Equivariant harmonic maps and pendulum-type equations. **97d:58059**
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Jost, Jürgen (*with* Zuo, Kang[1]) Harmonic maps and $\mathrm{Sl}(r, \mathbf{C})$-representations of fundamental groups of quasiprojective manifolds. (English summary) **97a:58043**
Kobayashi, Toshimasa $\mathrm{Sp}(n)$-equivariant harmonic maps between complex projective spaces. **97g:58045**
Koiso, Norihito On a wave equation corresponding to geodesics. **97d:58061**
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Lee, Yng-Ing (*with* Wang, Ai Nung; Wu, Der Chyi) On a theorem of Radò. **97e:58056**
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Li, Ming[9] Partial regularity of energy minimizing harmonic maps into a complete manifold. (English summary) **97b:58038**
Li, You Quan[1] (*with* Dong, Xue Geng) Solving Bäcklund transformations with harmonic mappings via Killing vectors. (English summary) **97d:58062**
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McIntosh, Ian A construction of all non-isotropic harmonic tori in complex projective space. **97f:58049**
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Ou, Ye-Lin (*with* Wood, John C.) On the classification of quadratic harmonic morphisms between Euclidean spaces. (English summary) **97d:58063**
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58F32 Functional-differential equations on manifolds

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58F37 Correspondences and other transformation methods (e.g. Lie-Bäcklund)

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58G10 Index theory and related fixed point theorems [see also 19K56, 46L80]

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58G12 Exotic index theories [see also 19K56, 46L05, 46L10, 46L80, 46M20]

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Gong, Guihua Relative K-cycles and local elliptic boundary conditions. (English summary) **97a:58180**
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Yu, Guoliang Zero-in-the-spectrum conjecture, positive scalar curvature and asymptotic dimension. **97h:58156**
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Ferry, Steven C. (*with* Weinberger, Shmuel) A coarse approach to the Novikov conjecture. (English summary) **97d:57025**
Friedlander, L. *see* **Burghelea, D.; et al., 97i:58177**
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Gong, Donggeng K-theoretic torsion invariants for finite von Neumann algebras. (English summary) **97m:46110**
Grubb, Gerd (*with* Seeley, Robert T.) Zeta and eta functions for Atiyah-Patodi-Singer operators. **97g:58174**

Hector, Gilbert Groupoïdes, feuilletages et C^*-algèbres (quelques aspects de la conjecture de Baum-Connes). [Groupoids, foliations and C^*-algebras (some aspects of the Baum-Connes conjecture)] **97h:46115**
Hopkins, Michael J. Topological modular forms, the Witten genus, and the theorem of the cube. **97f:11043**
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Xia, Daoxing Chern characters associated with almost commuting algebras. (English summary) **97d:19007**

58G15 Pseudodifferential and Fourier integral operators on manifolds [see also 35Sxx]

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Fedosov, B. V. (*with* Golse, François; Leichtnam, Eric; Schrohe, Elmar) The noncommutative residue for manifolds with boundary. (English summary) **97h:58157**
Fujita, Keiko (*with* Morimoto, Mitsuo) Gevrey classes on compact real analytic Riemannian manifolds. **97a:58181**
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Iwasaki, Chisato A proof of the Gauss-Bonnet-Chern theorem by the symbolic calculus of pseudo-differential operators. **97a:58182**
Kordyukov, Yu. A. Functional calculus for tangentially elliptic operators on foliated manifolds. (English summary) **97h:58158**
Laptev, A. (*with* Safarov, Yu. G.) Szegő type limit theorems. **97k:58166**
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Mantlik, Frank Norm closure and extension of the symbolic calculus for the cone algebra. (English summary) **97a:58183**
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Qian, Min (*with* Xu, Lian-Chao) Weyl transformations on manifolds. I. Definitions and isomorphism theorems. (English summary) **97m:58190**
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— *see also* **Laptev, A., 97k:58166**
Sakbaev, V. Zh. (*with* Zhidkov, P. E.) Schrödinger operators in spaces of multifunctions defined in multiply-connected domains. (English summary) **97a:58184**
Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Mellin quantization in the cone calculus for Boutet de Monvel's algebra. (English summary) **97a:58185**
— Invariance of the cone algebra without asymptotics. (English summary) **97m:58191**
— *see also* **Fedosov, B. V.; et al., 97h:58157**
Schulze, Bert-Wolfgang The variable discrete asymptotics in pseudo-differential boundary value problems. II. (English summary) **97c:58156**
— *see also* **Schrohe, Elmar, 97a:58185**
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Cederwall, Martin (*with* Ferretti, Gabriele; Nilsson, Bengt E. W.; Westerberg, Anders) Schwinger terms and cohomology of pseudodifferential operators. (English summary) **97i:81039**
Dubnov, V. L. (*with* Maslov, V. P.; Nazaikinskii, V. E.) Corrigendum: "The complex Lagrangian germ and the canonical operator" [Russian J. Math. Phys. **3** (1995), no. 2, 141–190; MR 96j:58166]. **Fedosov, B. V.** (*with* Schulze, Bert-Wolfgang) On the index of elliptic operators on a cone. **97j:58147**
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Gindikin, Simon G. Integral geometry on real quadrics. **97e:53113**
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— (*with* Okikiolu, K.) Subprincipal terms in Szegő estimates. **97k:58169**
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Kisil', Vladimir V. Quantum probabilities and non-commutative Fourier transform on the Heisenberg group. **97b:81060**
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Müller, Detlef Another example in the solvability theory of PDOs with double characteristics. **97m:35006**
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Paul, T. (*with* Uribe, A.) The semi-classical trace formula and propagation of wave packets. (English summary) **97c:58160**
— (*with* Uribe, A.) On the pointwise behavior of semi-classical measures. (English summary) **97a:58189**
— *see also* **Borthwick, David; et al., 97a:58188**
Plamenevskiĭ, B. A. (*with* Senichkin, V. N.) On composition series in algebras of pseudodifferential operators and in algebras of Wiener-Hopf operators. **97h:47050**
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— A local-to-global singularity theorem for quantum field theory on curved space-time. (English summary) **97f:81108**
Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Boundary value problems in Boutet de Monvel's algebra for manifolds with conical singularities. II. (English summary) **97d:58195**
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Wambst, Marc Homologie de l'algèbre quantique des symboles pseudo-différentiels sur le cercle. (English and French summaries) [Homology of the quantum algebra of pseudodifferential symbols on the circle] **97j:16014**
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Zelditch, Steven (*with* Zworski, Maciej) Ergodicity of eigenfunctions for ergodic billiards. (English summary) **97a:58193**
— A random matrix model for quantum mixing. **97j:81085**
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58G16 Hyperbolic equations

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Petrescu, Deivy M. Time decay of solutions of coupled Maxwell-Klein-Gordon equations. (English summary) **97e:58218**
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de Vries, Andreas The evolution of the Weyl and Maxwell fields in curved space-times. (English summary) **97d:58191**

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Allibert, Brice Contrôle analytique de l'équation des ondes sur des surfaces de révolution. (English and French summaries) [Analytic control of the wave equation on surfaces of revolution] **97a:35135**
Barannik, A. F. (*with* Moskalenko, Yu. D.) Symmetry reduction of Poincaré-invariant nonlinear wave equations. (English summary) (*see* **97b:00013**)
Bartnik, Robert The wave equation. (English summary) **97b:35001**
Beig, Robert The Einstein vacuum constraints and trapped surfaces. (English summary) **97f:83007**
Chalykh, O. A. (*with* Veselov, A. P.) Integrability and Huygens' principle on symmetric spaces. (English summary) **97i:43005**
Choquet-Bruhat, Yvonne (*with* York, James W., Jr.) Geometrical well posed systems for the Einstein equations. (English and French summaries) **97c:83008**
— (*with* Moncrief, Vincent) Existence theorem for solutions of Einstein's equations with 1 parameter spacelike isometry groups. **97e:83006**
Christodoulou, Demetrios Relativistic fluids and gravitational collapse. (English summary) **97h:83008**
Droz-Vincent, Philippe Positive particle frequencies in some time-periodic universes. (English summary) **97e:81062**
Elizalde, Emilio Extension of the Chowla-Selberg formula and applications. (English summary) **97e:11107**
Friedrich, Helmut Hyperbolic reductions for Einstein's equations. (English summary) **97d:83008**
Hájíček, P. (*with* Isham, C. J.) The symplectic geometry of a parametrized scalar field on a curved background. (English summary) **97g:81044**
— (*with* Isham, C. J.) Perennials and the group-theoretical quantization of a parametrized scalar field on a curved background. (English summary) **97g:81045**
de Hoop, Maarten V. Generalization of the Bremmer coupling series. (English summary) **97j:35152**
Isenberg, James Constant mean curvature solutions of the Einstein constraint equations on closed manifolds. (English summary) **97a:83013**

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Koch, Herbert (*with* Tataru, Daniel) On the spectrum of hyperbolic semigroups. (English summary) **97k:35150**
Koiso, Norihito On a wave equation corresponding to geodesics. **97d:58061**
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Witt, Ingo ★ Nichtlineare hyperbolische Evolutionsgleichungen in Gebieten mit konischen Singularitäten. (German) [Nonlinear hyperbolic evolution equations in domains with conical singularities] **97h:35134**
— ★ Non-linear hyperbolic equations in domains with conical points. (English summary) **97a:35159**
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58G17 Propagation of singularities; initial value problems

Cheverry, C. Propagation d'oscillations près d'un point diffractif. (English and French summaries) [Propagation of oscillations near a diffraction point] **97h:58160**
Hanyga, A. Diffraction at ray field singularities. (English summary) **97e:58219**
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Stoyanov, Luchezar N. Weak Hölder continuity of the generalized Hamiltonian flow. (English summary) **97h:58161**
Zil'bergleĭt, L. V. Second-order differential equation associated with contact geometry: symmetries, conservation laws and shock waves. (English summary) **97g:58167**

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Doyle, Philip W. (*with* Grundland, A. M.) Simple waves and invariant solutions of quasilinear systems. (English summary) **97a:35029**
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Kakié, Kunio Uniqueness and pseudo-convexity in the Cauchy problem for an overdetermined system of partial differential equations. **97h:35170**
Radzikowski, Marek J. Micro-local approach to the Hadamard condition in quantum field theory on curved space-time. (English summary) **97f:81107**
— A local-to-global singularity theorem for quantum field theory on curved space-time. (English summary) **97f:81108**
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58G18 Perturbations; asymptotics

Albeverio, Sergio (*with* Boutet de Monvel-Berthier, Anne-Marie; Brzeźniak, Zdzisław) Stationary phase method in infinite dimensions by finite-dimensional approximations: applications to the Schrödinger equation. (English summary) **97a:58187**
Axelrod, Scott Overview and warmup example for perturbation theory with instantons. (English summary) **97m:58193**
Bar-Natan, Dror Perturbative Chern-Simons theory. (English summary) **97c:58157**
Bokan, Neda (*with* Gilkey, Peter B.; Simon, Udo) Relating the second and fourth order terms in the asymptotic expansion of the heat equation. (English summary) **97i:58174**
Borthwick, David (*with* Paul, T.; Uribe, A.) Legendrian distributions with applications to relative Poincaré series. **97a:58188**
Boutet de Monvel-Berthier, Anne-Marie *see* **Albeverio, Sergio; et al., 97a:58187**
Brüning, Jochen (*with* Lesch, Matthias) On the spectral geometry of algebraic curves. **97d:58193**
Brzeźniak, Zdzisław *see* **Albeverio, Sergio; et al., 97a:58187**
Danilov, V. G. Letter to the editor: "A representation of the delta function via creation operators and Gaussian exponentials, and multiplicative fundamental solution asymptotics for some parabolic pseudodifferential equations" [Russian J. Math. Phys. **3** (1995), no. 1, 25–40; MR 96j:58165]. **97h:58162**
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Paul, T. (*with* Uribe, A.) On the pointwise behavior of semi-classical measures. (English summary) **97a:58189**
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Rozansky, Lev Witten's invariant of 3-dimensional manifolds: loop expansion and surgery calculus. (English summary) **97f:58130**
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Sjöstrand, Johannes Correlation asymptotics and Witten Laplacians. **97g:58168**
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Bokan, Neda *see* **Blažić, Novica; et al., (97i:53001)**
Burghelea, D. (*with* Friedlander, L.; Kappeler, T.) Asymptotic expansion of the Witten deformation of the analytic torsion. (English summary) **97b:58147**
Colin de Verdière, Yves (*with* Parisse, Bernard) Équilibre instable en régime semi-classique. II. Conditions de Bohr-Sommerfeld. (English and French summaries) [Semiclassical unstable equilibrium. II. Bohr-Sommerfeld conditions] **97a:81041**
Fliegner, D. *see* **Haberl, P.; et al., 97m:58188**
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Gilkey, Peter B. Heat equation and heat content asymptotics. **97i:58170**
— *see also* **Blažić, Novica; et al., (97i:53001)**
Glasser, M. L. *see* **Kowalenko, Victor; et al., 97c:41035**
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— (*with* Okikiolu, K.) Subprincipal terms in Szegő estimates. **97k:58169**
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58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [see also 35A22]

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58H05 Pseudogroups and differentiable groupoids [see also 22A22, 22E65]

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